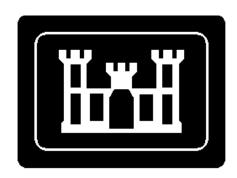
RCRA FACILITY INVESTIGATION REPORT

FOR

FH-009 (Sanitary Landfill 9) FORT HOOD, TEXAS

PREPARED FOR
U.S. ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT



CONTRACT NO. DACA63-96-D-0021

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RCRA Facility Investigation Report For Site FH-009 (Abandoned Sanitary Landfill 9)

Prepared for
U.S. Army Corps of Engineers
Fort Worth District
Fort Worth, Texas

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ACRONYMS

AA Atomic Absorption

BEG Bureau of Economic Geology

BGS Below Ground Surface

CDAP Chemical Data Acquisition Plan
CQAR Chemical Quality Assessment Report

DPW Directorate of Public Works
DQO Data Quality Objective

EM Electromagnetic ft Feet or Foot

GC/MS Gas Chromatography/Mass Spectrometry

ICP Inductively Coupled Plasma
IDW Investigation Derived Waste
LCS Laboratory Control Samples
MCL Maximum Contaminant Level

msl Mean Sea Level

MS/MSDs Matrix Spike/Matrix Spike Duplicate

ppb Parts Per Billion ppm Parts Per Million

PQL Practical Quantitation Limit
QA/QC Quality Assurance/Quality Control
RCRA Resource Conservation and Recovery Act

RFI RCRA Facility Investigation RRS Risk Reduction Standards

SAIC Science Applications International Corporation

SVOC Semivolatile Organic Compound SWMU Solid Waste Management Unit

TCLP Toxicity Characteristic Leaching Procedure

TNRCC Texas Natural Resource Conservation Commission USACE United States Army Corps of Engineers

USDA United States Department of Agriculture

USEPA United States Environmental Protection Agency

UTL Upper Tolerance Limit
VOC Volatile Organic Compound

EXECUTIVE SUMMARY

This report describes the collection and analysis of data from Solid Waste Management Unit (SWMU) FH-009 (Abandoned Sanitary Landfill 9), one of the 35 SWMUs investigated during the RCRA Facility Investigation (RFI) conducted at Fort Hood, Texas during November 1996 through March 1997. Additional investigation at this unit was conducted in April 1998 through June 1998. FH-009 is approximately 8 acres in size and was a trench-type landfill primarily used for municipal solid wastes. The landfill reportedly operated prior to 1972 and was covered with approximately 6 inches of soil at the time of closure (USACE 1995). The primary objective of investigation at FH-009 was to characterize the material in the landfill and to determine if a release to the environment has occurred due to the presence of waste materials within the landfill.

Soil and groundwater sampling was performed at FH-009 during installation of borings and piezometers. Historical data and visual observations of the site delineate the physical boundary of the landfill. To determine if further action is needed to address environmental conditions at FH-009, data has been evaluated using a two-part screening process according to guidance in the Texas Natural Resource Conservation Commission (TNRCC) Risk Reduction Standards [RRS (TAC 335 Subchapter S)].

Results of FH-009 surface and subsurface soil analyses inside and outside of the landfill indicate no presence of VOCs or SVOCs above risk screening criteria. No inorganic constituents were detected in surface soil inside or outside of the landfill at a concentration above the 95% UTL background criteria. Arsenic was the only inorganic constituent detected in subsurface soil inside or outside of the landfill at a concentration above the 95% UTL background criteria. Arsenic was detected outside of the landfill at two locations at concentrations of 11.6 ppm and 11.7 ppm, respectively. These concentrations are slightly above the background criteria of 9.2 ppm. However, statistical results have shown that arsenic concentrations at FH-009 are not significantly different from background arsenic concentrations. This information indicates that arsenic in subsurface soil does not pose a risk at FH-009. No other constituents were detected above background or risk screening criteria in subsurface soils at FH-009.

Based on descriptions from soil boring logs, groundwater collected within the landfill was from perched water zones formed by the temporary ponding and subsequent infiltration of precipitation on the landfill surface, rather than from a groundwater aquifer. No inorganic constituents, VOCs or SVOCS were detected above screening criteria in perched groundwater inside of the landfill or in groundwater outside of the landfill at FH-009. Therefore, with respect to these investigation results, FH-009 landfill is determined to contain typical sanitary landfill materials with no occurrence of migration of contamination from the landfill.

In summary, the unit is operating as intended, and no further action is necessary. Fort Hood will continue to assure that landfill FH-009 is maintained and managed in a manner which does not compromise the integrity of the unit and nearby environs.

1.0 INTRODUCTION

Fort Hood is an active U.S. Army installation occupying 217,551 acres (339 square miles) in southern Coryell and Bell Counties in central Texas. It is situated 60 miles north of Austin, and about 50 miles south of Waco. The installation is located north of and adjacent to the city of Killeen, east of and adjacent to the city of Copperas Cove, and four miles south of the city of Gatesville. A vicinity map is shown in Figure 1.1.

Fort Hood began operations in 1942. Robert Gray Air Field, originally operated by the Air Force as Robert Gray Air Force Base, was established in 1947 (U. S. Army 1996a). Fort Hood's mission is training, testing, and deployment of military personnel and equipment. The post is commanded by the III Corps Commander. Currently, the post supports two full divisions (the 1st Cavalry and 4th Infantry Divisions). Forty-three thousand military personnel are stationed there; and an additional 30,000 family members, civilians, volunteers, and private-sector employees also live or work at Fort Hood (U.S. Army 1996b). Among the military assets of Fort Hood are approximately 2,500 tracked vehicles, over 11,000 wheeled vehicles, six fixed wing aircraft, and 230 rotary-wing aircraft. The post has 67 active firing and demolition ranges.

The Fort Hood military reservation is regulated under the Resource Conservation and Recovery Act (RCRA) as a hazardous waste management facility. Fort Hood has a RCRA permit to operate three hazardous waste storage units. The RCRA permit requires that Fort Hood perform a RCRA Facility Investigation (RFI) for 40 solid waste management units (SWMUs) listed in the permit. These SWMUs are distributed across the military reservation, in the main cantonment, West Fort Hood, and North Fort Hood. They include former solid waste landfills and burial sites, former and inactive underground storage tank locations, active wash rack/sewer systems, effluent ponds, and a sanitary sewer network. An installation map is shown in Figure 1.2.

This report describes the collection and analysis of data from SWMU FH-009 (Abandoned Sanitary Landfill 9), one of the 35 SWMUs investigated during the RFI conducted November 1996 through March 1997. Additional investigation at this unit was conducted in April through June 1998. SWMU FH-009 is located west of Clear Creek Road and between abandoned Landfills 6 and 10 and west of SWMU FH-008. A golf course is located to the west of the site.

1.1 BACKGROUND

SWMU FH-009, approximately 8 acres in size, was a trench-type landfill that reportedly operated prior to 1972. FH-009 is suspected to contain municipal solid wastes, as well as some construction and demolition debris, specifically concrete rubble. The landfill was covered with approximately 6 inches of soil at the time of closure (USACE 1995). No previous investigations have been performed at FH-009 to characterize the material in the landfill or determine if there has been a release of hazardous wastes from the landfill. Also, no site-specific geologic investigations are known to have been conducted for this site.

1.2 SCOPE AND OBJECTIVES

The primary objective of investigation at FH-009 was to characterize the material in the landfill and to determine if a release to the environment has occurred due to the presence of waste materials within the landfill. Sampling for the RFI focused on determining the concentrations of heavy metals and organics. The specific objectives of the investigation at this SWMU were as follows:

- determine the presence or absence of contaminants in the soils at the landfill;
- determine the lateral boundaries of the landfill and the vertical and lateral extent of soil

- contamination at the landfill, where practicable;
- determine if groundwater is present below the landfill and if present, determine if the groundwater is contaminated;
- characterize the migration potential of any contaminants identified in the soils beneath the landfill;
- obtain information about the local geological conditions at the landfill;
- evaluate the potential human health risks associated with contaminants detected in surface and subsurface soils; and
- determine what, if any, corrective measures are needed to address contamination associated with SWMU FH-009.

The approach to the RFI included field sampling and laboratory analysis of surface and subsurface soils, and groundwater at this SWMU. The initial sampling and analysis program was conducted in accordance with the Final RCRA Facility Investigation Work Plan, 35 Solid Waste Management Units, Fort Hood, Texas (Final RFI Work Plan [USACE 1995]). Additional sampling and analysis was performed in 1998 in accordance with approved Work Plan Modifications (approval letter from the Texas Natural Resource Conservation Commission [TNRCC] dated April 21, 1998).

Initial sampling of landfill units in 1997 at Fort Hood was conducted during a period of unusually high precipitation. It was documented at that time that these landfill units were either saturated or contained areas of perched water. Because the base of the landfills rests on the bedrock surface, there was a question as to what happens to the water contained within the landfills. To address this question, piezometers were proposed to be installed around the landfill units. Placement of piezometers was based on bedrock conditions and the depth at which water was encountered. Using this approach, four piezometers were installed at FH-009.

2.0 ENVIRONMENTAL SETTING

The material presented in this section describes the physical characteristics of SWMU FH-009 and its surroundings. The geology, physiography, and climate are presented using regional and site-specific data where available.

2.1 PHYSIOGRAPHIC SETTING

Fort Hood is located within the eastern edge of the Lampasas Cut Plains region of the North-Central Plains physiographic province. The topography of Fort Hood consists of small stream valleys separated by ridge-forming mesas. Relief is as great as 340 ft. The Black and Blackwell Mountains are prominent features north of the main cantonment, as are Seven Mile Mountain at West Fort Hood, and the Dalton Mountains southwest of North Fort Hood. A topographic map of the main cantonment of Fort Hood is provided in Figure 2.1.

Local relief on the main cantonment and at West Fort Hood is generally less than 100 ft, with flat to gently rolling topography. Elevations on the main cantonment range from 860 to 940 ft above mean sea level (msl). Elevations at SWMU FH-009 range from approximately 895 ft above msl at the western boundary of the site to approximately 910 ft above msl at the eastern boundary of the site.

The rivers, streams, and creeks that constitute the main surface water pathways at Fort Hood are shown on Figure 1.2. Fort Hood lies along a watershed divide between Belton Lake drainage basin and the Leon River. The western and north-central parts of the main cantonment are drained by Clear Creek, which discharges to House Creek. House Creek is a tributary to the eastward-flowing Cowhouse Creek, which discharges to Belton Lake, a man-made reservoir. South Nolan Creek and North Nolan Creek both originate on Fort Hood and flow eastward to the Leon River, below Belton Lake.

2.2 GEOLOGIC CONDITIONS

A summary of the geology of the Fort Hood area relevant to this RFI is adapted from the Final RFI Work Plan (USACE 1995).

2.2.1 Bedrock

Lower Cretaceous marine sedimentary rocks make up the stratigraphy underlying Fort Hood. The Fredericksburg Group consists of several stratigraphic units. The Walnut Formation is the lowermost unit of the Fredericksburg Group and is the dominant stratigraphic unit in the main cantonment. It consists of shales with interbedded limestone, chalky nodular limestone, and shell aggregates. The fossiliferous Walnut Formation is exposed in many locations at Fort Hood. It varies in thickness from 100 to 150 ft (Bureau of Economic Geology [BEG] 1979). The Commanche Peak Formation and an undifferentiated unit overlie the Walnut Formation, but are present at the surface only north of the main cantonment in the Black and Blackwell Mountains, and on West Fort Hood on Seven Mile Mountain. Bedrock dips gently to the southeast throughout the area. Inactive faults are present in the subsurface to the east of Fort Hood along the Balcones Fault Zone, which runs through Bell, McLennan, and Hill Counties.

2.2.2 Unconsolidated Materials

Alluvial deposits of Quaternary age are present along stream valleys on the main cantonment, specifically along South Nolan Creek on the southern edge of the cantonment (USACE 1995). It is suspected that much alluvium and other natural surface deposits have been reworked throughout the active life of Fort Hood during construction projects.

2.3 CHARACTERIZATION OF SOILS

In many areas of the main cantonment, silty or sandy clay soils overlie bedrock. During the April 1998 investigation, differentiation between the unconsolidated soil and the underlying bedrock was made by the difference in color. During the previous field investigation it had been noted that the uppermost tan colored limestone and gravelly silty clays were more weathered than the underlying blue-gray limestone/limey-shales. It was ascertained that the tan color is evidence of the weathering processes occurring close to the surface of the ground. In upland areas, these unconsolidated soils consisted of silty clay with abundant rock fragments (weathered fossiliferous limestone and chert nodules) with weathered laminations of shale and limestone. In general, these soils have low permeabilities (U.S. Department of Agriculture [USDA] 1985a,b). Because soils have been extensively reworked for construction and landfilling in the SWMUs that were investigated, it is difficult to apply the USDA classification to the soils encountered on the main cantonment.

2.4 CHARACTERIZATION OF CLIMATE

The climate of the Fort Hood-Killeen area can be characterized as semi-arid continental. Winters (December-March) are mild, with the average daily maximum temperature in January (the coldest month) reaching 60 degrees Fahrenheit (°F). Below-freezing temperatures occur on an average of 23 days per year. The normal daily winter temperature range is 42 to 62° F. At times, strong northerly winds accompanied by sharp drops in temperature occur during the winter months. Summers (June-September) are hot and dry. The average daily maximum temperature in August, the hottest month, reaches 95.9° F. The normal daily temperature range for summer is 75 to 95° F. The average daily temperature in Killeen is 68.1° F.

Average annual rainfall in the Killeen area is 30.4 inches, and is most concentrated from September to May (U.S. Army 1996b). Snowfall is rare. The average annual humidity in the region is 55 percent. Total rainfall for 1996 at Fort Hood was 26.7 inches. Severe weather in the form of heavy rain, hailstorms, and ice storms is common in the winter months.

3.0 UNIT CHARACTERIZATION

SWMU FH-009 is an abandoned sanitary landfill that has been covered with native soil. Local relief at FH-009 is approximately 15 ft, ranging in elevation from appproximately 895 ft above msl along the western boundary to 910 ft above msl at the eastern boundary. SWMU FH-009 is approximately 8 acres in size. The surface area of the landfill is vegetated with grass, small scrub brush, and small to medium-sized trees. The site slopes to the west towards an unnamed tributary of Clear Creek that drains the site. The trench method of disposal reportedly operated prior to 1972. Aerial photographs from the mid-1970s were discovered during data collection activities for this RFI. Based on these photographs, trench orientation generally appears to be east-northeast to west-southwest. A review of the boring logs indicates the landfill is on top of bedrock. Shallow bedrock conditions are found throughout the Fort Hood area and the landfill construction technology of that era typically placed landfills on top of the bedrock. Also, based on landfill boundaries supported by aerial photographs and Base Information Mapping, it was determined that no geophysical investigation was necessary at FH-009.

Precipitation has been allowed to pond on the landfill and infiltrate into it. Soil boring log descriptions from this RFI indicate that water samples collected from locations within the landfill boundary were from perched water zones rather than from a groundwater aquifer. A water sample could only be collected from one of the five soil borings advanced during this RFI due to noncontiguous saturated conditions in the landfill. Based on this information and best professional judgement, water within the landfill is from perched water zones and not from a groundwater aquifer.

The landfill was constructed in native soil and reportedly contains municipal solid wastes and some construction and demolition debris, specifically concrete rubble. The municipal solid wastes include wastes from residential households, commercial facilities, and light industrial facilities. Specific types of debris identified during drilling activities at FH-009 and identified on soil boring logs (see Appendix A) include trash, plastic, glass, metal and wood. Photographs of the site were taken in January 1999 and are presented in Figure 3.1.

4.0 CHARACTERIZATION OF UNIT CONTAMINATION

The following sections describe the results of field activities and analytical procedures performed to achieve site specific objectives defined in Section 1.2 of this report.

4.1 TECHNICAL APPROACH

Two sampling events were conducted at FH-009. The first took place from January to March 1997 and all samples were collected from within the landfill boundary, in accordance with the approved Final RFI Work Plan (USACE 1995). A second sampling event occurred in April through June 1998. Piezometers were placed around the perimeter of the landfill to determine if any contaminants detected in the landfill have migrated through the soil or groundwater beyond the boundaries of the landfill. At FH-009, terrain conditions required the placement of some piezometers just inside the surveyed landfill limits, but outside of suspected areas of disposal.

Both surface (0 - 2 ft BGS) and subsurface soils (> 2 ft BGS) were sampled at FH-009. Different soil depths were sampled in order to provide data necessary to evaluate the potential human health risks associated with contaminants at the site and to better characterize the potential extent of contamination present in different soil strata. Contaminant concentrations will vary based on soil depth due to the chemical nature of the contaminant and the method by which the contaminant is deposited in the soil (i.e., spills, leaks, and atmospheric deposition). Concentrations at the surface of the soil may differ greatly from subsurface levels. In addition, analysis of different soil levels is necessary to accurately evaluate the human health risks associated with the contaminants. Exposures based on surface or direct contact will differ from exposure, if any, associated with contaminants in deeper soils. Combining surface and subsurface data may result in a database that is not truly representative of actual exposure at the site. At FH-009 direct contact with surface soils is more likely than contact with deeper soils.

Groundwater was sampled from soil borings advanced inside the landfill and from piezometers outside or near the boundaries of FH-009 to determine if leaching of contaminants from soils to groundwater has occurred. Sample identifications and associated analyses for all soil and groundwater samples collected at FH-009 are summarized in Table 4.1.

4.1.1 Soil Sampling Investigation

The locations of the sampling points at FH-009 are shown in Figure 4.1. All subsurface soil borings were drilled using a truck-mounted hollow-stem auger rig. Soil samples from subsurface borings were collected using a 5-foot continuous downhole sampling device. Downhole, breathing zone, and headspace organic vapors were monitored during sampling activities. All initial soil sampling, sample handling, chain-of-custody, and other field activities were conducted in January and March 1997 in accordance with the Final RFI Work Plan (USACE 1995) and the Chemical Data Acquisition Plan (USACE 1997 [CDAP]). During formulation of the RFI Work Plan, it was believed that unconsolidated material existed below the depth of the landfills at Fort Hood. Soil samples were originally to be collected from depths above and below the landfill, but during initial sampling activities, it was discovered that the landfill material rested on bedrock, which prohibited the collection of subsurface soil samples beneath the depth of the landfill. Some subsurface soil samples could not be collected due to the lack of recovery in the split spoon, mostly because of the boring being drilled through trash. Only subsurface soil samples were collected during the installation of piezometers. Soil sampling conducted during installation of piezometers during April and May 1998 was in accordance with the Final RFI Work Plan (USACE 1995) and Work Plan Modifications (TNRCC, April 21, 1998). Following sampling activities, all soil borings were closed in accordance with applicable requirements.

Surface soils and subsurface soils were sampled in January and March 1997 at FH-009 during advancement of five subsurface soil borings (SB101 through SB105). In addition, four piezometers (PZ101 through PZ104) were advanced, and subsurface soils were sampled in April 1998 to determine if contamination has migrated beyond the horizontal and vertical boundaries of the landfill. All soil samples collected during installation of soil borings and piezometers were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. The boring logs for FH-009 are provided in Appendix A.

Two piezometers (PZ101 and PZ103) were installed within the unconsolidated material overlying the bedrock, and two piezometers (PZ102 and PZ104) were installed within the bedrock. The two piezometers in the unconsolidated material are to determine direction of groundwater flow in the perched water above the bedrock and the two piezometers in the bedrock are to determine the groundwater flow in the bedrock. Blue-gray bedrock was encountered at a depth of approximately 25 to 26 ft BGS on the northeastern boundary of the landfill in piezometer PZ101 and boring SB101. Along the northern boundary of the landfill, the blue-gray bedrock was encountered at a depth of 15 ft BGS in piezometer PZ104. In the western area of the landfill, the blue-gray bedrock was encountered at a depth of 13 to 17 ft BGS in piezometers PZ102 and PZ103. In the center of the landfill area, the blue-gray bedrock was encountered at depths ranging from 17 to 25 ft BGS in borings SB102, SB103, and SB104. The blue-gray limestone and shale bedrock was overlain by yellow silty clays containing weathered limestone fragments. Landfill debris, including trash, plastic, glass, metal, and wood, was encountered in borings SB101, SB102 and SB105.

4.1.2 Groundwater Sampling

Groundwater samples were collected in January 1997 when groundwater was encountered during installation of the soil borings. Groundwater samples were also collected in June 1998 from newly installed piezometers. Groundwater was collected and analyzed in accordance with the Final RFI Work Plan (USACE 1995), Work Plan Modifications (TNRCC, April 21, 1998) and CDAP. Upon completion of the RFI, all piezometers will be abandoned in accordance with applicable requirements and abandonment reports will be submitted to the TNRCC.

Groundwater was collected from only one of the soil borings installed at FH-009 (SB105). No groundwater sample was able to be collected from borings SB101, SB102, SB103 and SB104 due to noncontiguous saturated conditions in the landfill. Groundwater was also collected and analyzed from two piezometers installed within the unconsolidated material, PZ101 and PZ103. PZ102 and PZ104 are both bedrock piezometers and were dry at the same time that the unconsolidated piezometers (PZ101 and PZ103) had enough water to take a sample. This indicates that there may be perched water above the bedrock. Groundwater samples were analyzed for VOCs, SVOCs, and metals.

4.2 UNIT INVESTIGATION AND ANALYTICAL RESULTS

Analytical results for soils at SWMU FH-009 (validated data and laboratory result forms) are provided in their entirety in Appendix B. Tables 4.2 and 4.3 summarize constituents detected above practical quantitation limits (PQLs) in soil and groundwater, respectively. The constituents detected above PQLs were screened against background and risk-based screening criteria as described in Section 4.3 and Section 5.0.

4.2.1 Surface Soil Analytical Results

All surface soil analyte results above PQLs are presented in Table 4.2. Inorganic constituents detected above PQLs in surface soils include: arsenic (2.7 parts per million [ppm] at SB102 to 4.2 ppm at SB104), barium (7.8 ppm at SB105 to 50 ppm at SB103), cadmium (0.1 ppm at SB103 to 0.15 ppm at SB105), chromium (4J ppm at SB101 to 11.5J ppm at SB103 and SB104) and lead (3.2 ppm at SB105 to 8.7 ppm at SB104).

Acetone was the only VOC detected above PQLs in surface soils in the FH-009 samples. Acetone was detected at SB103 and SB104 at concentrations of 17 parts per billion [ppb] and 63 ppb, respectively. No other VOCs or SVOCs were detected at FH-009 locations in surface soils.

4.2.2 Subsurface Soil Analytical Results

All subsurface soil analyte results above PQLs are presented in Table 4.2. Inorganic constituents detected above PQLs in subsurface soils include: arsenic (2.5 ppm at SB105 to 11.7 ppm at PZ104), barium (2.6 ppm at SB103 to 29.2 ppm at PZ102), cadmium (0.14 ppm at SB105 to 0.2 ppm at SB101), chromium (1.6J ppm at SB102 to 19 ppm at PZ102) and lead (2.2 ppm at SB105 to 15.4 ppm at PZ104).

VOCs detected above PQLs in subsurface soils in the FH-009 samples include: acetone and methylene chloride. Acetone was detected in eight samples at five locations with concentrations ranging from 11 ppb at SB103 to 46 ppb at SB102 and SB104. Methylene chloride was detected at SB102 and SB103 at concentrations of 8 ppb and 6 ppb, respectively. No other VOCs and no SVOCs were detected at FH-009 locations in subsurface soils.

4.2.3 Groundwater Analytical Results

Table 4.3 presents all of the groundwater analytical results above PQLs. Inorganic constituents detected above PQLs in groundwater at FH-009 include: arsenic (1.4 ppb at SB105), barium (15.8 ppb at SB105, 44.6 ppb at PZ101, and 113 ppb at PZ103), chromium (15.8 ppb at PZ103), lead (7.9 ppb at PZ103) and silver (2.2 ppb at PZ103). No VOCs or SVOCs were detected above PQLs in groundwater in the FH-009 samples.

4.2.4 Disposition of Investigation Derived Waste (IDW)

All IDW generated during drilling at FH-009 was stored in 55-gallon drums. All drums were clearly identified with the drum's contents, the date they were filled, and the SWMU where the IDW was generated. Drums were staged in the Science Applications International Corporation (SAIC) compound pending disposition. Analytical results from the corresponding soil samples were used to determine whether a drum=s contents were non-hazardous or potentially hazardous. Contaminant levels were screened against the RCRA A20 times@ rule for the Toxicity Characteristic Leaching Procedure (TCLP). Provisions were made for TCLP sampling of any solid IDW drums that did not meet the A20 times@ criteria. When a site soil sample concentration for a hazardous constituent was twenty times or greater than its respective leachate concentration listed in 30 TAC Chapter 335, Subchapter R, Appendix 1, Table 1, a sample was collected. All solid IDW determined to be non-hazardous by this method was transported to the Fort Hood Sanitary Landfill for disposal. All solid IDW determined to be potentially hazardous was delivered to the Fort Hood Directorate of Public Works (DPW) Classification Unit with the accompanying characterization data.

All solid IDW at FH-009 was placed in seventeen 55-gallon drums and was determined to be non-hazardous. The solid IDW was then transported to the Fort Hood Sanitary Landfill for disposal. All liquid IDW generated for this SWMU resulted from the decontamination of the drilling rig and other sampling equipment and well development/purge water and was placed in nine 55-gallon drums. Liquid IDW was determined to be non-hazardous and was disposed of in the 1st Calvary Division Tactical Vehicle Wash Facility. The drums containing the non-hazardous liquid are expected to contain a significant amount of sediment. For this reason, disposal at the 1st Calvary Division Tactical Vehicle Wash Facility was determined to be more appropriate than discharging the liquid to the sanitary sewer system. The Vehicle Wash Facility is a closed loop system consisting of three ponds used to settle out the dirt and sediment washed off the armored vehicles.

4.3 BACKGROUND CHARACTERIZATION AND COMPARISONS WITH WASTE UNIT SAMPLING RESULTS

In order to characterize naturally occurring constituents in soils at Fort Hood, samples were located and collected at 10 separate locations within the facility boundaries in the north, west, and main cantonments. Sampling locations are believed to be outside the influence of past or current industrial and/or waste activities at the facility. The general background sampling locations are presented in Figure 4.2. Background soils data and soil boring logs are presented in Appendices C and D, respectively.

Samples were analyzed for the following metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. There were only 40 valid background sample results for selenium due to quality assurance/quality control (QA/QC) problems with the selenium data. A discussion of the data QA/QC is presented in Section 6.1. Mercury was detected in only 1 of 43 soil samples and selenium in 2 of 40 background samples. Silver was not detected in any background soil samples.

Two statistical methods presented in the Final RFI Work Plan (USACE 1995) can be used to determine if there is a statistically significant difference between background soil concentrations and the concentrations of metals detected in SWMU samples. Background statistical calculations were determined by combining metal results from surface soils (0-2 ft) and subsurface soils (>2 ft). The statistical methods used to evaluate the background soil results are presented in Section 6 of the Final RFI Work Plan (USACE 1995). The methods include a 95% upper tolerance limit (UTL) calculation and an overall data set mean background concentration. The 95% UTL is an estimate of the 95th percentile of the population of background concentrations. The UTL is a value such that, with a high degree of confidence, 95% of all concentrations would be less than the UTL value. Results of the 95% UTL calculation are presented in Table 4.4. For inorganic parameters where the distribution was neither normal nor lognormal and where there were less than 50% detects, the maximum concentration detected was used in place of the 95% UTL. For inorganic parameters where there were no detects in the background samples, the PQLs were used in place of the 95% UTLs as the background comparison value. The 95% UTL background value for soils was used as the primary background screening criteria for inorganics.

The second statistical method to be used is either a mean comparison using the t-test, or the Wilcoxon (Mann-Whitney) Test. The use of these tests is dependent on the distribution of the data set. The t-test is to be used on data sets that have a normal distribution or that can be transformed to a normal distribution. According to the Final RFI Work Plan (USACE 1995), if the data set is not normally distributed and the t-test is not appropriate, a nonparametric method, the Wilcoxon Test, is to be used to test the difference in the background versus the data set. The flow chart from the Final RFI Work Plan (USACE 1995) used for the statistical evaluations is provided in Appendix E. Results of calculations for the 95% UTLs, means, standard deviations, and the Wilcoxon Test for FH-009 data are also presented in Appendix E.

Arsenic was detected in soil at FH-009 at concentrations greater than the 95% UTL soil background concentration, therefore, further statistical analysis was performed for this metal. The Wilcoxon Test for arsenic detected in soil at FH-009 resulted in an absolute Z value of 1.35 versus the critical Z value of 1.645 for a one-tailed test. This indicates there is no significant difference between the background soil arsenic data and FH-009 soil arsenic data. Further discussion of statistical results is included in Section 6.2 (Investigation Results) of this report.

5.0 SCREENING ANALYSIS

The TNRCC has promulgated Risk Reduction Standards (30 TAC 335, Subchapter S) for soils and groundwater for residential and industrial land uses. Risk Reduction Standards (RRSs) Number 1 are defined as background concentrations or analytical PQL values, whichever are greater. RRSs Number 2 are health-based standards and criteria that are deemed protective of human health or the environment. The TNRCC RRSs have been used to screen the data generated at FH-009 to determine whether or not constituents are present at the site at concentrations which may warrant further investigation.

The TNRCC RRSs Number 1 are used to determine if there are hazardous constituents at a SWMU that could result from a potential release. Soil sample results were compared to the 95% UTL background concentration levels or PQLs. Background soil levels were determined for eight metals and the results are presented in Section 4.3. Metals detected above background levels and organic constituents above PQLs are considered to be a potential release from the unit. Organic constituents in soils reported above the analytical PQL were then screened against the TNRCC RRSs Number 2 (30 TAC 35 Industrial Soil GWP). TNRCC RRSs Number 2 values are deemed protective of human health and are based on an ingestion of soil and inhalation of particulates and volatiles pathway and a soil-to-groundwater cross-media protection pathway. In most cases for inorganics, the 95% UTL background concentration is greater than the TNRCC RRS Number 2 value and thus, the background concentration is used in the screening process. Appendix F provides a tabulation of detected results and the screening criteria used for comparison. Table 5.1 shows analytes detected above screening criteria in soil.

5.1 SURFACE SOIL SCREENING

No inorganic constituents were detected above screening criteria in surface soils at FH-009. To determine if the concentrations of VOCs and SVOCs detected at FH-009 warrant further action, sample results were screened against the TNRCC RRS Number 2 criteria for these constituents. Organic parameters detected above PQLs in surface soils at FH-009 were presented in Section 4.2.1. No organic parameters were detected above TNRCC RRS Number 2 criteria in surface soils at FH-009. Complete results of the surface soil screening analysis are presented in Appendix F.

5.2 SUBSURFACE SOIL SCREENING

Arsenic was the only inorganic constituent detected in subsurface soil at a concentration above the 95% UTL background criteria. Arsenic was detected outside of the landfill at PZ102 and PZ104 at concentrations of 11.6 ppm and 11.7 ppm, respectively. These concentrations are slightly above the background criteria of 9.2 ppm. No other inorganic or organic constituents were detected above background values or screening criteria in subsurface soils from samples collected at FH-009. Complete results of the subsurface soil screening analysis are presented in Table 5.1 and in Appendix F.

5.3 GROUNDWATER SCREENING

No inorganic constituents were detected at concentrations above corresponding maximum contaminant levels (MCLs) in groundwater at FH-009. No organic constituents were detected above TNRCC RRSs Number 1 and 2 values in groundwater at FH-009. Results of the groundwater screening analysis are presented in Appendix F.

6.0 INVESTIGATION ANALYSIS

6.1 DATA QUALITY ASSURANCE/QUALITY CONTROL

The Fort Hood RFI Work Plan, the contract laboratory=s Quality Assurance Plan, and U.S. Environmental Protection Agency (USEPA) SW-846 or other approved procedures for analytical chemistry and physical testing methods were followed for field and laboratory QA/QC of FH-009 samples. According to the Work Plan, QA and QC samples were to be collected at a frequency of ten percent and analyzed along with the environmental samples. Field QC samples for FH-009 included trip blanks and equipment rinsate blanks. Quality control analyses such as matrix spikes, blanks, and laboratory control samples were conducted by the contract laboratory as an internal control measure of the accuracy and precision of the data. Quality assurance sample analyses were performed by the Army Corps of Engineers= Southwest District Laboratory as an external control measure of the accuracy and precision of the contract laboratory=s results and of sampling procedures. The QA/QC and corresponding field sample results are reviewed by Army Corps of Engineers quality assurance personnel, who then issue a Chemical Quality Assurance Report (CQAR).

Laboratory QC procedures as prescribed by each analytical method were followed by the contract laboratory and included where applicable: gas chromatography/mass spectrometry (GC/MS) tuning, initial and continuing calibrations, method/extraction blanks, laboratory control samples (LCS), surrogate spikes, internal and external standards, duplicates, matrix spikes/matrix spike duplicates (MS/MSDs), inductively coupled plasma (ICP) and atomic absorption (AA) related QC procedures/samples, and spiked sample clean-up results.

The CQAR addressed concerns with the FH-009 data. Concerns included missing internal QC data (mainly MS/MSD results) and a trip blank that arrived at the laboratory with bubbles larger than 6mm. Other concerns were the potential for data to be biased (high or low) and the potential for false positives or negatives based on matrix spike and laboratory control spike deviations from QC criteria for a number of analytical parameters. The deviations did not lead to rejection or qualification of the data. Based on the CQAR findings, the data are usable and have met the project data quality objectives (DQOs).

Data QA/QC procedures included an independent data validation of ten percent of the results for compliance of analyses to DQOs. All FH-009 data that were reviewed for data validation met project DQOs and are usable data as qualified, with the exception of selenium results for 10 background soil samples (2 surface and 8 subsurface). The selenium results were rejected due to unacceptable matrix spike recoveries and were excluded from background calculations. The rejected background data had no impact on the FH-009 results.

6.2 INVESTIGATION RESULTS

The quality of the data set for soil and groundwater samples collected at FH-009 meets the objectives of the RFI as described in Section 1.2 of this report. Nineteen soil samples collected from nine soil locations and three groundwater samples collected during drilling activities and from newly installed piezometers were analyzed according to the Final RFI Work Plan (USACE 1995) and approved Work Plan Modifications (approval letter from the TNRCC dated April 21, 1998). The number and location of the samples were adequate to provide information regarding the presence/absence of contamination, the characterization of the vertical and lateral extent of potential contamination, and the boundaries of the suspected disposal area. A review of the boring logs indicate the landfill is on top of bedrock and visual observations of the site, as well as aerial photographs, delineate the physical boundary of the landfill. Precipitation has been allowed to pond on the landfill, and infiltrate into it. Based on descriptions from soil boring logs, the water that was collected inside the landfill was from perched water zones rather than from a groundwater aquifer.

Results of FH-009 surface and subsurface soil analyses inside and outside of the landfill indicate no presence of VOCs or SVOCs above risk screening criteria. Acetone and methylene chloride detected above PQLs in surface and subsurface soils are suspect because these constituents are common laboratory contaminants and were detected at low concentrations. No inorganic constituents were detected in surface soil inside or outside of the landfill at a concentration above the 95% UTL background criteria. Arsenic was the only inorganic constituent detected in subsurface soil outside of the landfill, or near the perimeter of the landfill, at a concentration above the 95% UTL background criteria. Arsenic was detected at PZ102 and PZ104 at concentrations of 11.6 ppm and 11.7 ppm, respectively. These concentrations are slightly above the background criteria of 9.2 ppm. However, statistical results using the Wilcoxon Test have shown that arsenic concentrations at FH-009 are not significantly different from background arsenic concentrations. Also, TNRCC has issued guidance on arsenic with preliminary action levels at 20 mg/kg (See Appendix G: TNRCC Background Criteria Memo). This information indicates that arsenic in subsurface soil does not pose a risk at FH-009. No other constituents were detected above background or risk screening criteria in subsurface soils at FH-009.

Based on descriptions from soil boring logs and sampling events, groundwater collected within the landfill was from perched water zones formed by the temporary ponding and subsequent infiltration of precipitation on the landfill surface, rather than from a groundwater aquifer. No inorganic constituents, VOCs or SVOCS were detected above screening criteria in perched groundwater inside of the landfill or in groundwater outside of the landfill at FH-009.

Based on the results of visual inspection and soil analyses no releases or contamination have migrated outside of the landfill. Soil and groundwater sampling results, including visual inspection of landfill debris, indicate that the FH-009 landfill contains nothing other than typical sanitary landfill material. The parameters detected in samples collected at FH-009 can come from debris found in municipal solid waste landfills. The exact source of these constituents is not known, however, potential sources may include glass, paper products, plastics or breakdown products of these items. Therefore, with respect to these investigation results, FH-009 landfill is determined to have typical sanitary landfill materials with no occurrence of migration of contamination from the landfill. Section 7 discusses actions needed to maintain and improve the area inside of the FH-009 landfill.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The previous sections have discussed the results of the analyses of samples collected inside and outside the FH-009 landfill. In Section 6.2, a discussion of results indicates that contamination has not migrated from the landfill and that the landfill contains typical sanitary landfill materials. Constituents detected above PQLs within the landfill are typical of the expected landfill debris, the levels of detected constituents pose no threat to human health and the environment, and there has been no evidence identified which indicates constituents found within the boundary of the landfill have migrated outside of the landfill. The boring logs show the base of the landfill rests on bedrock. Based on the information in this RFI, the water samples collected from inside the landfill are from perched water zones formed by the temporary ponding and subsequent infiltration of precipitation rather than from a groundwater aquifer. Settling of the landfill surface causes the formation of troughs which become sites for ponding of water on the surface of the landfill. Fort Hood will continue to assure that landfill FH-009 will be maintained and managed in a manner which does not compromise the integrity of the unit and nearby environs. In summary, the unit is operating as intended, and no further action is necessary.

8.0 REFERENCES

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TABLES

FH-009

Table 4.1 FH-009 Sample Identification and Analyses

Station	Sample ID	Matrix	Depth (ft)	Date Collected
PZ101	09PZ102	Groundwater		06/02/1998
	09SB116	Subsurface Soil	26.0-26.4	04/07/1998
PZ102	09SB117	Subsurface Soil	14.0-15.0	04/07/1998
PZ103	09PZ101	Groundwater		06/02/1998
	09SB118	Subsurface Soil	14.5-16.0	05/06/1998
PZ104	09SB119	Subsurface Soil	14.0-15.0	05/06/1998
	09SB101	Surface Soil	0.0-1.0	01/08/1997
SB101	09SB102	Subsurface Soil	14.5-16.0	01/08/1997
	09SB103	Subsurface Soil	24.5-25.5	01/08/1997
	09SB109	Surface Soil	0.0-1.0	03/06/1997
SB102	09SB110	Subsurface Soil	8.0-9.0	03/06/1997
30102	09SB111	Subsurface Soil	15.0-15.5	03/06/1997
	09SB112	Subsurface Soil	24.0-25.0	03/06/1997
	09SB106	Surface Soil	0.0-1.0	03/05/1997
SB103	09SB107	Subsurface Soil	14.0-15.0	03/05/1997
	09SB108	Subsurface Soil	24.0-25.0	03/05/1997
	09SB113	Surface Soil	0.0-1.0	03/06/1997
SB104	09SB114	Subsurface Soil	15.5-16.0	03/06/1997
	09SB115	Subsurface Soil	19.0-20.0	03/06/1997
	09SB104	Surface Soil	0.0-1.0	01/09/1997
SB105	09SB105	Subsurface Soil	10.5-11.0	01/09/1997
	FHGW103	Groundwater		01/10/1997

Notes:

^{1.} Groundwater was collected when encountered during installation of soil borings.

^{2.} All samples were analyzed for VOCs, SVOCs, and metals.

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
PZ101	09SB116	26.0-26.4	Metals	Arsenic	5.1	0.33	mg/kg
				Barium	7.4	0.06	mg/kg
				Chromium	9.8	0.07	mg/kg
				Lead	5.8	0.19	mg/kg
PZ102	09SB117	14.0-15.0	Metals	Arsenic	11.6	0.37	mg/kg
				Barium	29.2	0.07	mg/kg
				Chromium	19	0.08	mg/kg
				Lead	11.1	0.22	mg/kg
			Volatile Organics	Acetone	34	6	ug/kg
PZ103	09SB118	14.5-16.0	Metals	Arsenic	6.8	0.19	mg/kg
				Barium	3.8 J	0.14	mg/kg
				Chromium	3.4 J	0.08	mg/kg
				Lead	4.8	0.15	mg/kg
PZ104	09SB119	14.0-15.0	Metals	Arsenic	11.7	0.18	mg/kg
	0,02	1 7.0 12.0		Barium	16 J	0.13	mg/kg
				Chromium	15.2 J	0.08	mg/kg
				Lead	15.4	0.14	mg/kg
						 	
SB101	09SB101	0.0-1.0	Metals	Arsenic	3.6	0.39	mg/kg
				Barium	9.9	0.09	mg/kg
				Cadmium	0.14	0.05	mg/kg

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB101	09SB101	0.0-1.0	Metals	Chromium	4 J	0.09	mg/kg
				Lead	4.1 J	0.16	mg/kg
	09SB102	14.5-16.0	Metals	Arsenic	5.9	0.42	mg/kg
				Barium	19.6	0.10	mg/kg
				Cadmium	0.2	0.05	mg/kg
				Chromium	11.4 J		mg/kg
				Lead	6.7 J	0.18	mg/kg
	09SB103	24.5-25.5	Metals	Arsenic	4.5	0.37	mg/kg
				Barium	13.2	0.09	mg/kg
				Cadmium	0.17	0.04	mg/kg
				Chromium	5.8 J		mg/kg
				Lead	5.9 J	0.16	mg/kg
SB102	09SB109	0.0-1.0	Metals	Arsenic	2.7	0.38	mg/kg
				Barium	36 J	0.07	mg/kg
				Chromium	5.8	0.09	mg/kg
				Lead	5	0.22	mg/kg
	09SB110	8.0-9.0	Metals	Arsenic	4	0.41	mg/kg
				Barium	16.2 .		mg/kg
				Chromium	9.2 .		mg/kg
				Lead	5.9	0.24	mg/kg
			Volatile Organics	Acetone	29	6	ug/kg
				Methylene Chloride	8	6	ug/kg
	09SB111	15.0-15.5	Metals	Arsenic	3.5	0.39	mg/kg

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB102	09SB111	15.0-15.5	Metals	Barium	13.8 J	0.08	mg/kg
00102	0,02111	15.0 15.5	···········	Chromium	5.2 J	0.09	mg/kg
				Lead	5.4	0.23	mg/kg
				2440			
			Volatile Organics	Acetone	12	6	ug/kg
	09SB112	24.0-25.0	Metals	Arsenic	5.7	0.33	mg/kg
				Barium	3.3 J	0.06	mg/kg
				Chromium	1.6 J	0.08	mg/kg
				Lead	4.8	0.19	mg/kg
			Volatile Organics	Acetone	46	5	ug/kg
SB103	09SB106	0.0-1.0	Metals	Arsenic	3 J	0.38	mg/kg
				Barium	50	0.07	mg/kg
				Cadmium	0.1	0.06	mg/kg
				Chromium	11.5 J	0.09	mg/kg
				Lead	6.9 J	0.22	mg/kg
			Volatile Organics	Acetone	17	6	ug/kg
	09SB107	14.0-15.0	Metals	Arsenic	4.2 J	0.37	mg/kg
	0,0010,	14.0 15.0	, iotais	Barium	11.2	0.07	mg/kg
				Chromium	6.6 J	0.08	mg/kg
				Lead	7 J	0.21	mg/kg
			Volatile Organics	Acetone	11	6	ug/kg
	09SB108	24.0-25.0	Metals	Arsenic Barium	4.7 J 2.6	0.33 0.06	mg/kg mg/kg

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB103	09SB108	24.0-25.0	Metals	Chromium	1.9 J	0.08	mg/kg
	0,02.00			Lead	3.3 J	0.19	mg/kg
			Volatile Organics	Acetone	36	5	ug/kg
				Methylene Chloride	6	5	ug/kg
SB 104	09SB113	0.0-1.0	Metals	Arsenic	4.2	0.40	mg/kg
				Barium	45.7 J	0.08	mg/kg
				Chromium	11.5 J	0.09	mg/kg
				Lead	8.7	0.23	mg/kg
			Volatile Organics	Acetone	63	6	ug/kg
	09SB114	15.5-16.0	Metals	Arsenic	8.4	0.37	mg/kg
	0730114	13.5-10.0	Metals	Barium	16.3 J	0.07	mg/kg
				Chromium	6 J	0.08	mg/kg
				Lead	11.5	0.22	mg/kg
			Volatile Organics	Acetone	24	6	ug/kg
	09SB115	19.0-20.0	Metals	Arsenic	6.8	0.33	mg/kg
	0930113	19.0-20.0	Wictars	Barium	3 J	0.06	mg/kg
				Chromium	2.1 J	0.07	mg/kg
				Lead	4.7	0.19	mg/kg
			Volatile Organics	Acetone	46	5	ug/kg
SB105	09SB104	0.0-1.0	Metals	Arsenic	3.7 7.8	0.37	mg/kg mg/kg
55.00				Barium		0.09	

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB105	09SB104	0.0-1.0	Metals	Cadmium	0.15	0.04	mg/kg
				Chromium	4.3	0.09	mg/kg
				Lead	3.2	0.16	mg/kg
	09SB105	10.5-11.0	Metals	Arsenic	2.5	0.37	mg/kg
				Barium	15	0.09	mg/kg
				Cadmium	0.14	0.04	mg/kg
				Chromium	3.6	0.09	mg/kg
				Lead	2.2	0.16	mg/kg

J - Indicates estimated value

Table 4.3 FH-009 Analytes Detected in Groundwater Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
PZ101	09PZ102		Metals	Barium	44.6	0.60	ug/l
PZ103	09PZ101		Metals	Barium Chromium Lead Silver	113 15.8 7.9 2.2	0.60 0.70 1.5 1.4	ug/l ug/l ug/l ug/l
SB105	FHGW103		Metals	Arsenic Barium	1.4 15.8	0.30 2.5	ug/l ug/l

Table 4.4
Statistical Analysis of 95% UTL Concentrations Background Soils

Analyte (units)	Mean	95% UTL	Maximum Detect	Results > PQL	Distribution
Arsenic (mg/kg)	4.3500	9.19	11.6	43/43	N
Barium (mg/kg)	30.19	157.3	155.0	43/43	L
Cadmium (mg/kg)	0.15	0.67	0.79	36/44	L
Chromium (mg/kg)	7.32	24.88	23.6	44/44	L
Lead (mg/kg)	5.77	19.0	33.20	44/44	L
Mercury (mg/kg)	0.0400	0.04*	0.04	1/44	D
Selenium (mg/kg)	0.345	0.44*	0.44	2/40	D
Silver (mg/kg)	0.218	**	ND	0/44	D

Results less than the detection limit were set to 2 the reported detection limit.

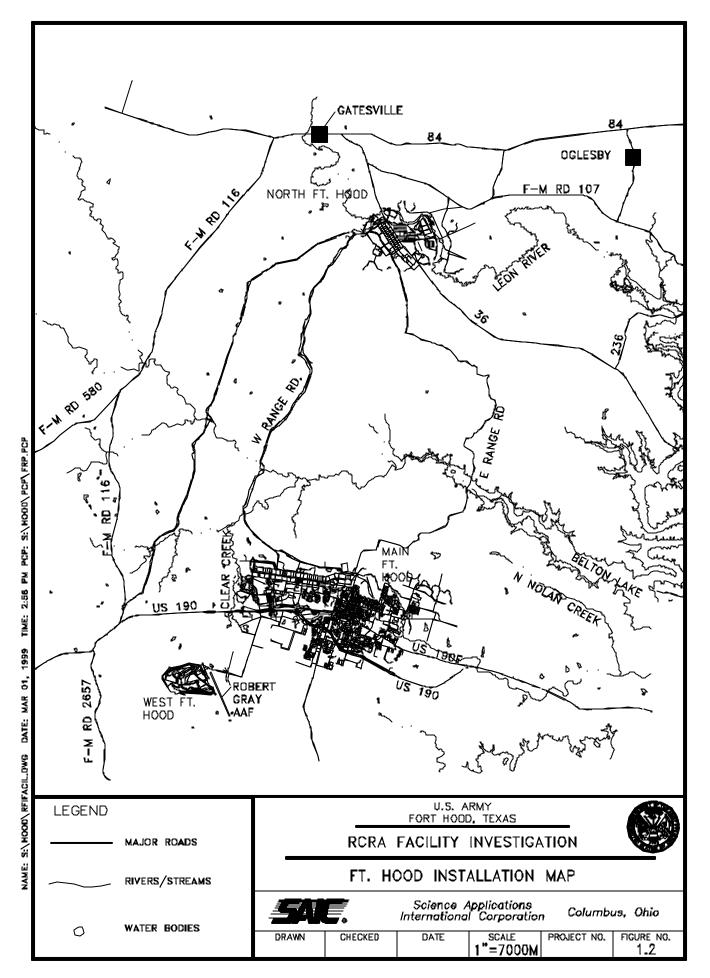
- L distribution most similar to lognormal.
- N distribution most similar to normal.
- D distribution not determined because fewer than five detects or less than 50% detects.
- * UTL -maximum detected
- ** the 95% UTL could not be calculated due to no detects in the background data set, therefore, the PQL will be used as the background comparison value. The PQL for silver in background samples ranges from 0.2 ppm to 0.25 ppm.
- ND Not Detected

Table 5.1 FH-009 Soil Analytes Above Screening Criteria

Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria	Screening Concentration	Units
PZ102	09SB117	14.0-15.0	Arsenic	11.6	mg/kg	Soil Background	9.2	mg/kg
PZ104	09SB119	14.0-15.0	Arsenic	11.7	mg/kg	Soil Background	9.2	mg/kg

FIGURES

FH-009



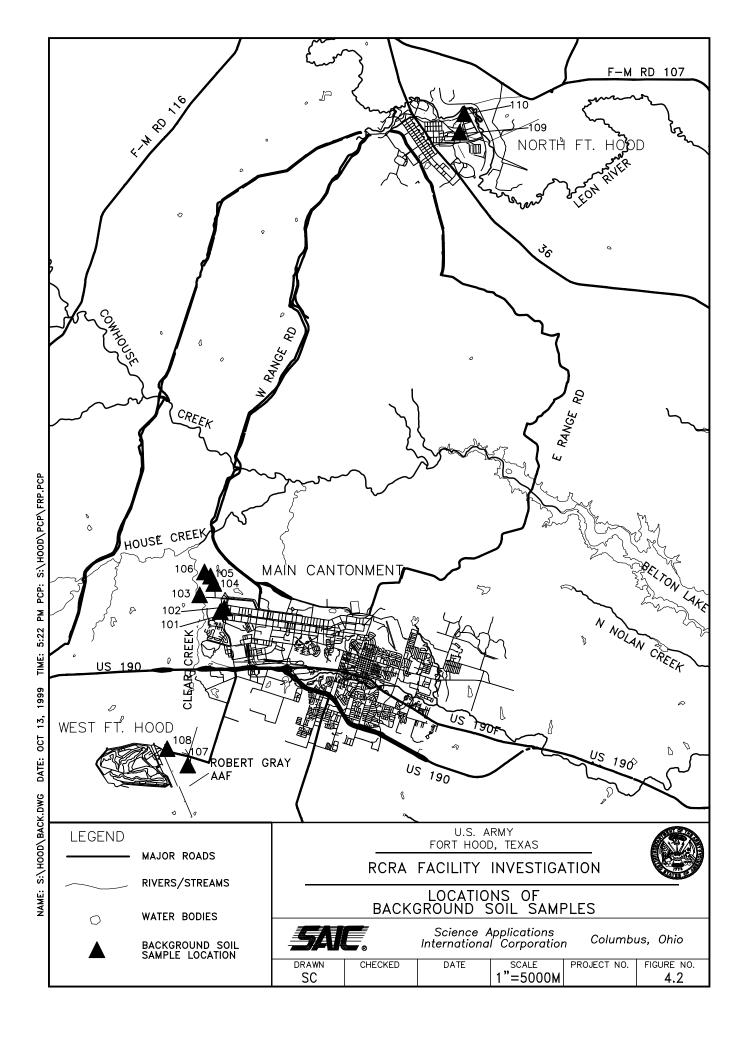


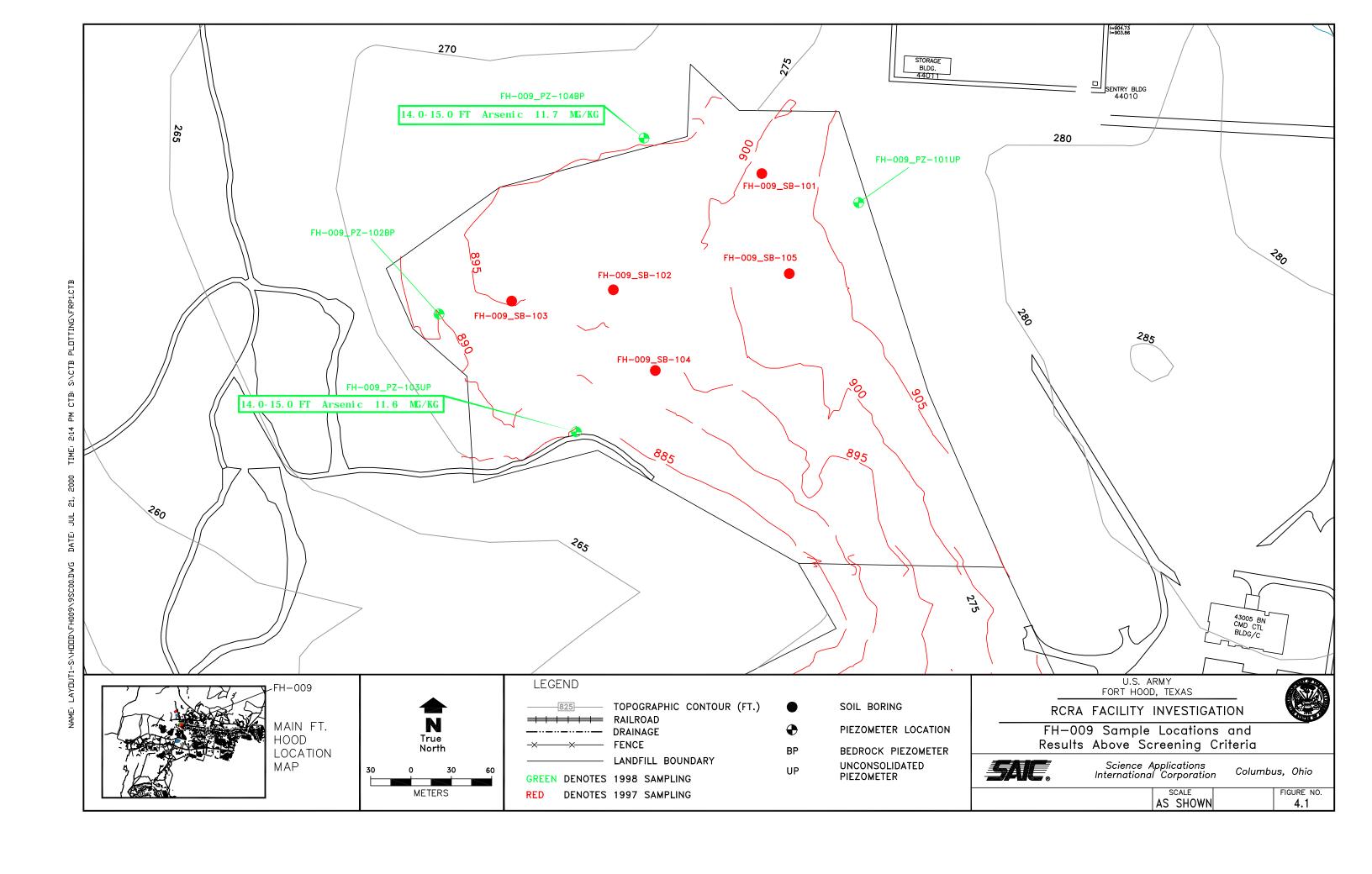
Looking west from the eastern boundary of Landfill 9.



Looking west along the southern boundary of Landfill 9.

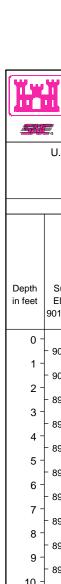
Figure 3.1 Photographs of FH-009





APPENDIX A

FH-009 Soil Boring Logs



RCRA Facilities Investigation Fort Hood, Texas

U. S. Army Corp of Engineers Fort Worth District Fort Worth, Texas

Boring FH009-SB101

(Page 1 of 1)

SWMU FH009 : Abandoned Landfill 9

Start Date : 01/08/97 End Date : 01/08/97 Northing Coord. : 3446781.33 m

Easting Coord. : 613765.08 m UTM 14 North

Total Depth of Boring : 25.5 feet

Drilling Company : Terra-Mar

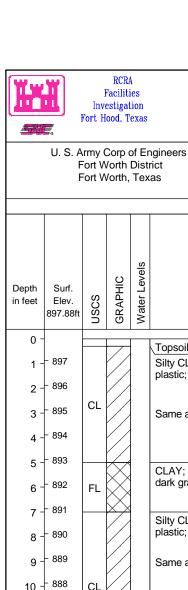
Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: Jeff DeVaughn Geologist Depth to Bedrock : 24.5 feet Depth Drilled Into Rock: 1.0 foot Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

: CME Sampler 5' long

Depth Surf. in feet Elev. 901.49ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0 - - 901 1 - - 900 2 - - 899 3 - - 898	CL FL			Topsoil Silty CLAY; weathered limestone fragments; damp; firm; moderately plastic; 2.5Y7/6 yellow. Silty CLAY; weathered limestone fragments; brick fragments; damp; firm; moderately plastic; 2.5Y5/3 light olive brown.	Sample 09SB101 collected 0.0-1.0' bgs.
4 - - 897 5 - - 896 6 - - 895 7 -	CL FL CL			Silty CLAY; weathered limestone fragments; damp; firm; moderately plastic; 2.5Y7/6 yellow. Same as above; damp. Silty CLAY as above with glass; burned wood; rusty metal; dry.	Description from soil cuttings 2.5-5.0' bgs.
- 894 8 - - 893 9 - - 892 10 - - 891 11 -	CL			Same Silty CLAY as above; no fill material; damp. Same Silty CLAY as above with interbeds of weathered limestone; dry. Same as above; dry.	Description from soil cuttings 6.5-14.5' bgs.
- 890 12 - - 889 13 - - 888 14 - - 887 15 - - 886	CL			Silty CLAY; trace limestone fragments; damp; hard; highly plastic; 2.5Y6/4 light yellowish brown.	Sample 09SB102 collected 14.5-16.0' bgs.
16 - 885 17 - 884 18 - 883 19 - 882				Same as above; dry. Same Silty CLAY as above with interbeds of weathered limestone.	
20 - 881 21 - 880 22 - 879 23 - 878	CL LS			Same as above; dry.	Description from soil cuttings 16.5-24.5' bgs.
24 - - 877 25 - - 876 26 -	LS			LIMESTONE, weathered; blue-gray. Bottom of Boring @ 25.5' bgs.	Sample 09SB103 collected 24.5-25.5' bgs. Soil colors from Munsell Soil Color Chart, 1992 Revised Editi



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Fort Hood, Texas

Boring FH009-SB102

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: Abandoned Landfill 9

SWMU FH009

Start Date : 03/06/97 End Date : 03/06/97 Northing Coord. : 3446708.77 m

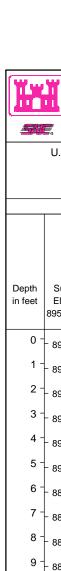
Easting Coord. : 613672.57 m UTM 14 North Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: Jeff DeVaughn Geologist Depth to Bedrock : 22.0 feet Depth Drilled Into Rock: 3.0 feet **Borehole Diameter** : 8 inches Sampling Equipment : 4.25" Augers

					Total Depth of Boring : 25.0 feet	: CME Sampler 5' loi		
Depth in feet	Surf. Elev. 897.88ft	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS	
0 -					Topsoil			
1 - 2 -	- 897 - 896				Silty CLAY; limestone fragments; damp; firm; moderately plastic; 2.5Y7/3 pale yellow and 2.5Y6/8 olive yellow.	Sample	09SB109 collected 0.0-1.0' bgs.	
3 - 4 -	- 895 - 894	CL			Same as above; dry.	Descripti	on from soil cuttings 2.5-5.0' bgs.	
5 - 6 -	- 893 - 892	FL		,	CLAY; TRASH; plastic, glass; moist; soft; 2.5Y3/1 very dark gray.			
7 - 8 -	- 891 - 890				Silty CLAY; limestone fragments; damp; firm; moderately plastic; 2.5Y7/3 pale yellow and 2.5Y6/8 olive yellow.			
9 - 10 -	- 889 - 888	CL			Same as above; dry.	Sample (09SB110 collected 8.0-9.0' bgs.	
11 - 12 -	- 887 - 886				Same as above; dry.	Geotechi	nical sample collected 12.0-13.0' bgs.	
13 - 14 -	- 885 - 884	CL LS			Same CLAY as above with interbedded tan LIMESTONE.			
15 -	- 883	CL			Same Silty CLAY as above; more slit; dry.	Sample (09SB111 collected 15.0-15.5' bgs.	
16 - 17 -	- 882 - 881	-			Same CLAY as above with interbeds of tan LIMESTONE; dry.		v	
18 - 19 -	- 880 - 879	CL LS			Same as above; dry.	Descripti	on from soil cuttings 17.0-20.0' bgs.	
20 -	- 878 - 877				Sama aa ahaya day			
21 - 22 -	- 876				Same as above; dry. SHALE; dry; blue-gray.			
23 - 24 -	- 875 - 874	SH						
25 -	- 873				Bottom of Boring @ 25.0' bgs.	Sample (09SB112 collected 24.0-25.0' bgs.	



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U. S. Army Corp of Engineers

Fort Worth District

Fort Worth, Texas

Boring FH009-SB103

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: Abandoned Landfill 9

SWMU FH009

Start Date : 03/05/97 End Date : 03/05/97 Northing Coord. : 3446701.88 m

Easting Coord. : 613609.99 m UTM 14 North

Total Depth of Boring : 25.0 feet

Drilling Company : Terra-Mar

Driller : Bill Christopher

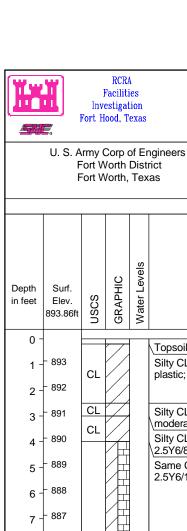
Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: Jeff DeVaughn Geologist Depth to Bedrock : 25.0 feet Depth Drilled Into Rock: <0.1 feet Borehole Diameter : 8 inches

Sampling Equipment : 4.25" Augers

: CME Sampler 5' long

					Total Depth of Boring : 25.0 feet		: CME Sampler 5' long
Depth in feet	Surf. Elev. 895.20ft	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 -	- 895 - 894				Silty CLAY; limestone fragments; damp; firm; moderately plastic; 2.5Y6/8 olive yellow and 2.5Y7/3 pale yellow.		09SB106, duplicate FHSB231, and split FHSB331 d 0.0-1.0' bgs.
2 - 3 -	- 893 - 892	CL			Same as above; damp.		
4 - 5 -	- 891				Same as above with interbeds of tan LIMESTONE; dry; 2.5Y6/4 light brownish yellow.		
6 -	- 890 - 889						
7 - 8 -	- 888 - 887				Same as above; dry.	Descrip	tion from soil cuttings 7.0-9.0' bgs.
9 - 10 -	- 886 - 885	CL LS					
11 - 12 -	- 884				Same as above; dry.		
13 -	- 883 - 882						
14 - 15 -	- 881 - 880	CL			CLAY; dry; hard; highly plastic; 2.5Y6/4 light brownish yellow. Same CLAY as above with interbedded tan LIMESTONE.	Sample	09SB107 collected 14.0-15.0' bgs.
16 - 17 -	- 879 - 878						
18 - 19 -	- 877					Descrip	tion from soil cuttings 15.0-22.0' bgs.
20 -	- 876 - 875	CL LS					
21 - 22 -	- 874 - 873				Same as above; dry.		
23 - 24 -	- 872 - 871				LIMECTONE/CHALE, dry blue men at better at leading	Correl	000D400 collected 24.0.25 0 h ==
25 -	- 870				LIMESTONE/SHALE; dry; blue-gray at bottom of boring.		09SB108 collected 24.0-25.0' bgs. ors from Munsell Soil Color Chart, 1992 Revised Edition.



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SWMU FH009 : Abandoned Landfill 9

Start Date : 03/06/97 End Date : 03/06/97 Northing Coord. : 3446658.77 m

Easting Coord. : 613698.68 m UTM 14 North

Boring FH009-SB104

Total Depth of Boring : 20.0 feet

Drilling Company : Terra-Mar

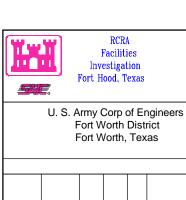
Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: Jeff DeVaughn Geologist Depth to Bedrock : 17.0 feet Depth Drilled Into Rock: 3.0 feet **Borehole Diameter** : 8 inches Sampling Equipment : 4.25" Augers

· CME Sampler 5' long

					Total Depth of Boring : 20.0 feet		: CME Sampler 5' long
Depth in feet	Surf. Elev. 893.86ft	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 -	_		7		\Topsoil /	Comple	000D442 callected 0.0.4.0! have
1 -	- 893				Silty CLAY; limestone fragments; damp; soft; highly	Sample	09SB113 collected 0.0-1.0' bgs.
2 -	- 892	CL			plastic; 2.5Y6/8 olive yellow and 2.5Y7/3 pale yellow.		
3 -	- 891	CL			Silty CLAY; mixed with coal fragments; damp; firm;		
4 -	- 890	CL			\moderately plastic; 2.5Y3/1 very dark gray. Silty CLAY; limestone fragments; dry; soft; highly plastic;		
	- 889				2.5Y6/8 olive yellow and 2.5Y7/3 pale yellow. Same CLAY as above with interbedded LIMESTONE;	1	
5 -	- 888				2.5Y6/1 gray.		
6 -	007						
7 -						Descript	tion from soil cuttings 6.0-9.0' bgs.
8 -	- 886				Same as above; dry.		
9 -	- 885						
10 -	- 884	CL LS	H				
11 -					Same as above; dry.		
12 -	- 882						
13 -	- 881					Descript	tion from soil cuttings 11.0-15.0' bgs.
14 -	- 880						
15 -	- 879		H		Same as above; dry.		
16 -	- 878					Sample	09SB114 collected 15.5-16.0' bgs.
17 -	- 877				SHALE; dry; blue-gray.	-	
18 -	- 876	SH	ĒΞ				
19 -	- 875	011				Sample	09SB115 collected 19.0-20.0' bgs.
20 -	- 874				Bottom of Boring @ 20.0' bgs.	Campie	55525 651166164 15.6 26.6 bys.
21 -	- 873						
22 -	- 872						
23 -	- 871						
24 -	- 870						(H
25 -	- 869					Soil cold	ors from Munsell Soil Color Chart, 1992 Revised Editi



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Boring FH009-SB105

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: Abandoned Landfill 9

SWMU FH009

Start Date : 01/09/97 End Date : 01/09/97

Northing Coord. : 3446718.46 m Easting Coord. : 613781.50 m UTM 14 North Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: Jeff DeVaughn Geologist : Not Encountered Depth to Bedrock

Depth Drilled Into Rock: NA Borehole Diameter Sampling Equipment : 4.25" Augers

					Easting Coord. Total Depth of Boring	: 613781.50 m UTM 14 : 13.0 feet	1 3 1-1	: 4.25" Augers : CME Sampler 5' long
Depth in feet	Surf. Elev. 903.89ft	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMAR	RKS
0 -	- 903	CL			Silty CLAY; weathered limestone fragme moderately plastic; 2.5Y7/4 pale yellow.	nts; damp; firm;	Sample 09SB104 collected 0.0-1.0)' bgs.
2 -	- 902				Silty CLAY as above; trace rusty metal fr organics (roots/twigs); damp; firm; mode mottled with 2.5Y3/2 very dark grayish be	rately plastic;		
3 - 4 -	- 901 - 900					ı	Description from soil cuttings 3.0-	5.0' bgs.
5 - 6 -	- 899 - 898	CL			Same as above; dry.			
7 -	- 897							
8 - 9 -	- 896 - 895				Same as above; dry.	I	Description from soil cuttings 6.0-	10.0' bgs.
10 -	- 894			•	Silty CLAY; weathered limestone fragme plastic; mottled 2.5Y7/1 light gray and 2.5	VG/9 olivo	Sample 09SB105 collected 10.5-1	1.0' bas
11 - 12 -	- 893 - 892	CL			yellow.		cample 0002 100 collected 10.0 1	1.0 bgs
13 -	- 891				Bottom of Boring @ 13.0' bgs.		Water in soil cuttings, saturated fil spoon retrieval from 13' bgs.	l material at 10' bgs upon
14 -	- 890 - 889							
15 - 16 -	- 888							
17 -	- 887							
18 -	- 886							
19 - 20 -	- 885 - 884					,	Soil colors from Munsell Soil Colo	Chart, 1992 Revised Edition.



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SWMU FH009 : Abandoned Landfill 9 Start Date

: 04/07/98 End Date : 04/18/98 Northing Coord. : 3446763.30 m

Boring FH009-PZ101

Drilling Company : Terra-Mar

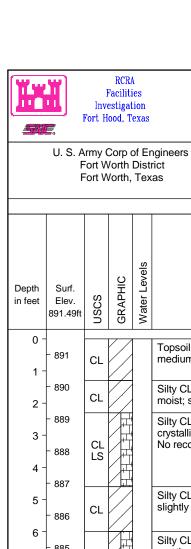
Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: A.B.Richardson/J.DeVaughn Geologists

Depth to Bedrock : 26.4 feet Depth Drilled Into Rock: 1.1 feet Borehole Diameter : 8 inches

						Easting Coord. Total Depth of Boring	: 613825.05 m UTM : 27.5 feet	14 North	Sampling Equip	mpling Equipment : 4.25" Augers : CME Sampler 5' long			
Depth in feet						DESCRIPTION	RE	EMARKS	Well1: PZ101 Elev.: 911.11 TOC No Protective Casing Installed				
2 - 3 -	- 908 - 907 - 906	GP			silt and clay; sligh plastic; 2.5Y6/4 lig	angular, <40mm, cher tly moist; medium soft ght yellowish brown. (F sand, medium to coars	and loose; slightly ill?)		covery 0-5' bgs o. PID 0.0 ppm	• • •			
5 -	- 905 - 904	ML				lastic; 2.5Y3/2 very da				• • •	Cement/Bentonit Grout		
	- 903 - 902	CL			Silty CLAY; grave sand, coarse; moi	l, <30mm, angular to sest; soft; very plastic; 2.	ubangular; trace 5Y7/6 yellow. /	1	0-6.5' bgs.		Casing		
	- 901	NR			No recovery. Note	e: driller thinks it is sam	e as above.	30" 63%	covery 5-9' bgs 5. ppm LEL 0%.		2" Dia PVC Sch		
Ĭ	- 900 - 899	CL			Silty CLAY as abo	ve except dry; firm.					@ 9.0' bgs		
	- 898	CL LS			bottom with limest	sand and gravel; interb tone beds holding mois c; 2.5Y6/8 olive yellow	sture; moist;		0.0-10.5' bgs. 2.0-12.5' bgs		Seal - Medium Bentonite Chips Top of Filter Pac (2) (2) (2) (3) (4)		
	- 896 - 895 - 894	CL			olive yellow.	and and gravel; dry; haxcept; moist/damp; soft		60" 100	covery 9-14' bgs %. ppm LEL 0%		, 2.12.3 Sgc		
16 -	- 893 - 892	CL ML			2.5Y6/8 olive yello	sand; moist; slightly fin w mottled 5Y6/3 pale o	live/				Top of Screen @ 15.95' bgs		
18 -					2.5Y7/6 olive yello	clay; slightly moist; firn w.	i, slightly plastic,	Sample bgs 32"	recovery 14-19' 53%.		Filter Pack		
20 - 21 - 22 -	- 889 - 888 - 887 - 886	NR			No recovery.						(2040 Silica San Screen 2" Dia P Sch 40, 10 Slot		
	- 885 - 884	ML			Same Sandy SILT	as above except more	e moist.		om of 6" PVC ② 26' bgs.		Bottom of Scree		
26 -	- 883								09SB116 d 26.0-26.4' bgs.		@ 25.48' bgs		
27 -	- 882	NR			LIMESTONE, fos	siliferous; blue-gray.	/	Conecie	u 20.0-20.4 DYS.				
29 -	- 881 - 880					at 27.5' bgs. Auger ref	usal.		ors from Munsell or Chart, 1992 Edition.				
30 -	- 879				l					J 			



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Boring FH009-PZ102

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: Abandoned Landfill 9

SWMU FH009

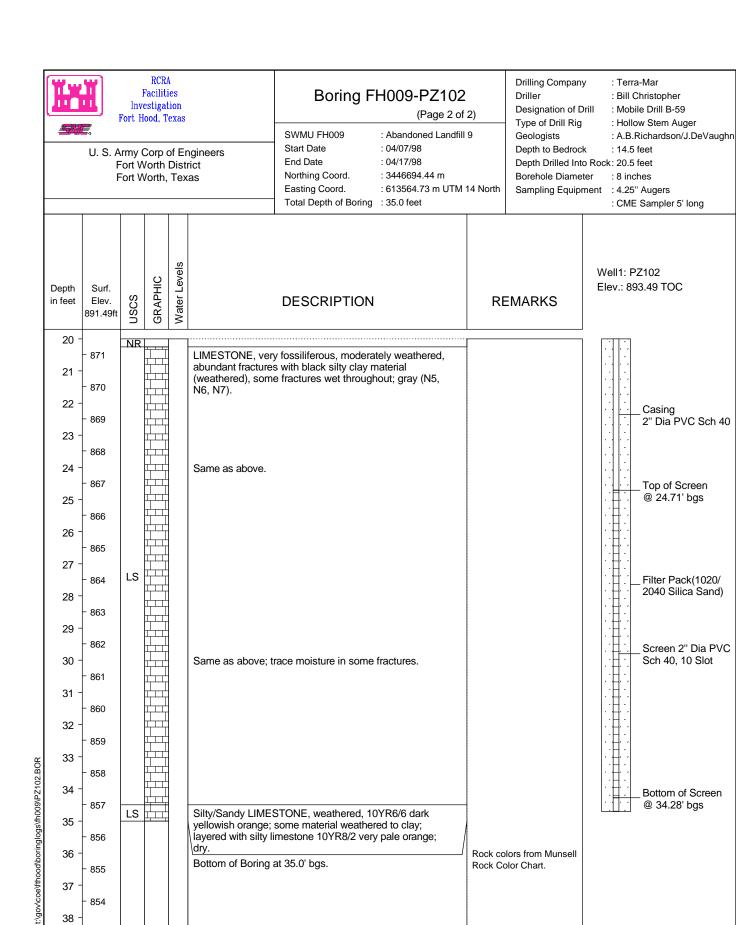
Start Date : 04/07/98 End Date : 04/17/98 Northing Coord. : 3446694.44 m Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : A.B.Richardson/J.DeVaughn Geologists

: 14.5 feet Depth to Bedrock Depth Drilled Into Rock: 20.5 feet Borehole Diameter

	Fort Worth, Texas						Easting Coord. : 613564.73 m UTM 14 North Total Depth of Boring : 35.0 feet				oment : 4.25" Augers : CME Sampler 5' long			
	Depth Surf. in feet Elev. 891.49ft ON Mater Levels						DESCRIPTION		REMARKS	<u> </u>				
	0 -	- 891	CL			Topsoil - Silty CLA medium soft; plas	AY; with sand, coarse; slightly mo	ist; wn.			Casing Installed			
	1 -	- 890	CL	//		Silty CLAY; trace	sand and gravel, <20mm, angular							
	2 -	- 889					c; 2.5Y6/4 light yellowish brown.	40"	e recovery 0-4' bgs 83%. PID 0.0 ppm 0%.					
	3 -	- 888	CL LS		+	No recovery 3.4-4								
	5 -	- 887				Silty CLAY; trace	sand and gravel, <20mm, angular	,						
	6 -	- 886	CL				n, plastic, 2.5 (6/4 light yellowish b							
	7 -	- 885			+	weathered, fossilit	ferous; slightly damp; very hard; c (if moistened, very plastic).							
	8 -	- 884 - 883			+	No recovery 8-9' b	ogs.	48"	e recovery 4-9' bgs 80%. 0.0 ppm LEL 0%.		Cement/Bentonite Grout			
	9 -	- 882			+		except LIMESTONE is less weath ne; 2.5Y8/3 pale yellow.	ered			Casing			
1	0 -	- 881	CL LS		+			24"	e recovery 9-14' bgs 40%. 0.0 ppm LEL 0%		2" Dia PVC Sch 40			
	1 -	- 880			+	No. 22 22 22 24 24 24 24 24 24 24 24 24 24	Alban Natarana and January							
	2 -	- 879			+	dust from hole sm	4' bgs. Note: appears very hard a nelled like limestone.	na						
요	4 -	- 878			+	Same as above.			nple 09SB117					
t:/gov/coevthood/boringlogs/th/009/P2102	5 -	- 877				LIMESTONE and	interbedded shale; dry; blue-gray		ected 14-15' bgs.					
ogyporinging 1	6 -	- 876 - 875						Sam	nple recovery 14-19'		Top of Seal @ 16.0' bgs			
v/coe/thoc	7 -	- 874	LS					bgs	60" 100%. 0.0 ppm LEL 0%		Seal - Medium Bentonite Chips			
	8 -	- 873							bottom of 6" PVC ng @ 18' bgs.		Top of Filter Pack			
0-21-1	9 -	- 872	NR			Auger refusal at 1 No recovery.	9.5'. Begin Coring				@ 18.9' bgs Filter Pack(1020/			
2	0 -			1	-	1					2040 Silica Sand)			



Silty/Sandy LIMESTONE, weathered, 10YR6/6 dark

yellowish orange; some material weathered to clay; layered with silty limestone 10YR8/2 very pale orange;

Bottom of Boring at 35.0' bgs.

857

856

855

854

853

852

35

36

37

38

39

40

LS

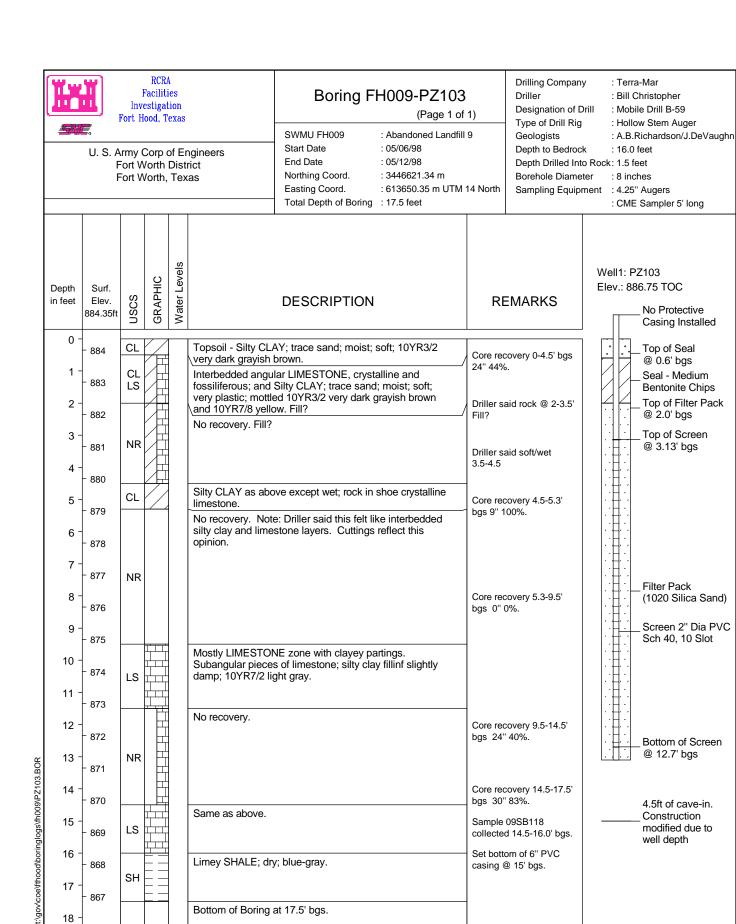
@ 34.28' bgs

Rock colors from Munsell

Soil colors from Munsell Soil Color Chart, 1992

Revised Edition.

Rock Color Chart.



casing @ 15' bgs.

Revised Edition.

Soil colors from Munsell Soil Color Chart, 1992

868

867

866

865

17

18

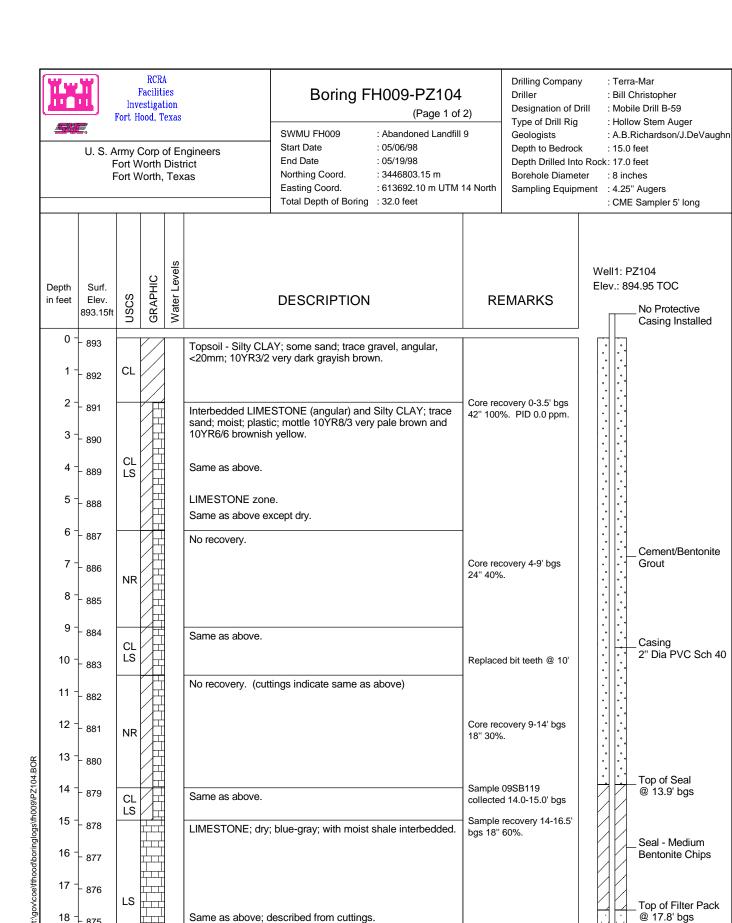
19

20

10-21-1999

SH

Bottom of Boring at 17.5' bgs.



Same as above; described from cuttings.

Top of Filter Pack

(1020 Silica Sand)

@ 17.8' bgs

Filter Pack

17

18

19

20

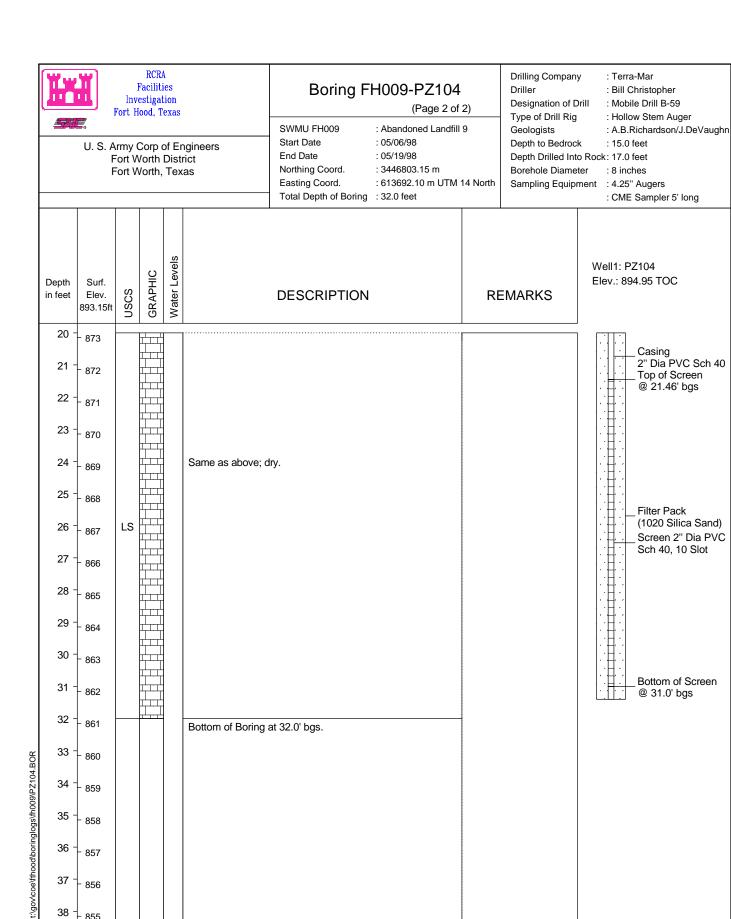
0-21-1999

876

875

874

LS



Soil colors from Munsell

Soil Color Chart, 1992

Revised Edition.

10-21-1999

APPENDIX B

FH-009 RFI Analytical Results

 Location:
 PZ101

 Sample ID:
 09SB116
 Depth:
 26.0-26.4

 COE Sample ID:
 FH009-SB116/04-07-98/26.0-26.4

 Date Collected:
 4/7/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	5.1	0.33			mg/kg	SW846 6010
Barium	7440-39-3	7.4	0.06			mg/kg	SW846 6010
Cadmium	7440-43-9	0.05	0.05	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	9.8	0.07			mg/kg	SW846 6010
Lead	7439-92-1	5.8	0.19			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.25	0.24	NU	ŬJ	mg/kg	SW846 7740
Silver	7440-22-4	0.18	0.18	U	Ü	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
	95-94-3	360	360	U	U	ug/kg	SW846 8270
1,2,4,5-Tetrachlorobenzene		360	360	Ü	Ü	ug/kg ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1		360	Ü	U		
1,2-Dichlorobenzene	95-50-1 541-52-1	360				ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	360	360	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	360	360	U	Ü	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	360	360	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	360	360	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	360	360	U	U	ug/kg	SW846 8270
2.6-Dinitrotoluene	606-20-2	360	360	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	360	360	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	360	360	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	360	360	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	360	360	Ū	Ü	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	Ŭ	Ŭ	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	360	360	Ŭ	Ü	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	Ŭ	Ü	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	Ü	Ü	ug/kg ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	Ü	ug/kg ug/kg	SW846 8270
		360	360	U	Ü	ug/kg ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3		360	U	U		SW846 8270
4-chloro-3-methylphenol	59-50-7	360		U	U	ug/kg	
4-Chloroaniline	106-47-8	360	360			ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	360	360	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	360	360	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	360	360	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	360	360	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	360	360	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	360	360	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	360	360	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	360	360	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	360	360	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	360	360	Ū	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	270	1700	JВ	Ĵ	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	360	360	U	Ŭ	ug/kg	SW846 8270
•	111-91-1	360	360	U	Ü	ug/kg ug/kg	SW846 8270
Bis(2-chloroethoxy)methane		360	360	U	U	ug/kg ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4						
Bis(2-ethylhexyl)phthalate	117-81-7	360	360	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	360	360	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	360	360	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	360	360	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	360	360	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	360	360	U	U	ug/kg	SW846 8270
Dibenzofuran	13 2- 64-9	360	360	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	360	360	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	360	360	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	360	360	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	360	360	U	U	ug/kg	SW846 8270

 Location:
 PZ101

 Sample ID:
 09SB116
 Depth:
 26.0-26.4

 COE Sample ID:
 FH009-SB116/04-07-98/26.0-26.4

 Date Collected:
 4/7/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	360	360	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	360	360	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	360	360	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	360	360	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	360	360	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	360	360	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	360	360	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	360	360	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	360	360	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700 360	1700 360	U U	U U	ug/kg	SW846 8270
Phenanthrene Phenol	85-01-8 108-95-2	360 360	360	U	Ü	ug/kg ug/kg	SW846 8270 SW846 8270
Pyrene	129-00-0	360	360	U	Ŭ	ug/kg ug/kg	SW846 8270
Pyridine	110-86-1	360	360	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Tyridine	110 00 1	300		· ·	Č	~6.~6	5110100270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8240
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8240
1,1,2-Trichloroethane	79-00-5	6	6 6	U U	U U	ug/kg	SW846 8240
1,1-Dichloroethane 1,1-Dichloroethene	75-34-3 75-35-4	6 6	6	Ü	U	ug/kg ug/kg	SW846 8240 SW846 8240
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg ug/kg	SW846 8240 SW846 8240
1,2,3-Trichlorobenzene	87-61-6	6	6	Ü	Ü	ug/kg ug/kg	SW846 8240
1,2,3-Trichloropropane	96-18-4	6	6	U	Ü	ug/kg ug/kg	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	6	6	Ū	Ū	ug/kg	SW846 8240
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8240
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8240
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8240
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8240
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8240
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8240
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8240
1,3,5-trimethylbenzene	108-67-8	6 6	6 6	U U	U U	ug/kg	SW846 8240
1,3-Dichlorobenzene 1,3-Dichloropropane	541-73-1 142-28-9	6	6	U	U	ug/kg ug/kg	SW846 8240 SW846 8240
1,4-Dichlorobenzene	106-46-7	6	6	Ü	Ü	ug/kg ug/kg	SW846 8240
2,2-Dichloropropane	594-20-7	6	6	Ü	Ŭ	ug/kg	SW846 8240
2-Butanone	78-93-3	6	6	U	Ū	ug/kg	SW846 8240
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8240
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8240
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8240
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8240
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8240
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8240
Bromobenzene	108-86-1	6	6 6	U U	U U	ug/kg	SW846 8240
Bromochloromethane Bromodichloromethane	74-97-5	6 6	6	U	U	ug/kg	SW846 8240
Bromoform Bromoform	75-27-4 75-25-2	6	6	บ	U	ug/kg ug/kg	SW846 8240 SW846 8240
Bromomethane	74-83-9	6	6	U	Ū	ug/kg ug/kg	SW846 8240
Carbon Tetrachloride	56-23-5	6	6	Ū	Ŭ	ug/kg	SW846 8240
Chlorobenzene	108-90-7	6	6	Ü	Ŭ	ug/kg	SW846 8240
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8240
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8240
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8240
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8240
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8240
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8240
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8240
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8240
Isopropyl Benzene	98-82-8	6	6 6	U U	U U	ug/kg	SW846 8240
m,p-Xylene Methylene Chloride	13-302-07 75-09-2	6 6	6	U	U	ug/kg ug/kg	SW846 8240 SW846 8240
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg ug/kg	SW846 8240 SW846 8240
Surjionizono	10 1-51-0	v	•	O	9	46 v2	5,10100270

Location: PZ101 Sample ID: 098 SB116 **Depth:** 26.0-26.4 FH009-SB116/04-07-98/26.0-26.4 4/7/98 09SB116 COE Sample ID: Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8240
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8240
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8240
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8240
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8240
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8240
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8240
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8240
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8240
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8240
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8240
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8240

Location: PZ101
Sample ID: 099
COE Sample ID:
Date Collected: 102 **Depth:** NA FH009-PZ102/06-02-98 09PZ102

6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	3	2.9	В	U	ug/l	SW846 6010
Barium	7440-39-3	44.6	0.6			ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	NU	UJ	ug/l	SW846 6010
Chromium	7440-47-3	0.74	0.7	NB	UJ	ug/l	SW846 6010
Lead	7439-92-1	1.5	1.5	U	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	*U	UJ	ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	WU	UJ	ug/l	SW846 7740
Silver	7440-22-4	1.4	1.4	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	\mathbf{U}	ug/l	SW846 8270
1.4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	u U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270

Sample ID: 09PZ102 Z102 **Depth:** NA FH009-PZ102/06-02-98 COE Sample ID:
Date Collected:

6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U	U	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10 10	U U	U U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	J	UJ	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2 10	10	U	U	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7 218-01-9	10	10	Ü	U	ug/l	SW846 8270
Chrysene	84-74-2	10	10	Ŭ	Ü	ug/l	SW846 8270 SW846 8270
Di-n-butyl Phthalate Di-n-octyl Phthalate	117-84-0	10	10	บ	Ü	ug/l ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	บ	Ŭ	ug/i ug/i	SW846 8270
Dibenzofuran	132-64-9	10	10	Ü	Ü	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	Ŭ	Ü	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	Ü	Ü	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	Ü	Ü	ug/l	SW846 8270
Fluorene	86-73-7	10	10	Ŭ	Ŭ	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	Ŭ	Ū	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	Ū	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	Ū	Ū	ug/l	SW846 8270
Hexachloroethane	6 7-72 -1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	10	10	U	U	ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260

Sample ID: 09PZ102 COE Sample ID: FH0 102 **Depth:** NA FH009-PZ102/06-02-98

Date Collected: 6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	5	5	U	\mathbf{U}	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	\mathbf{U}	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	Ū	Ū	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	Ŭ	Ŭ	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	Ŭ	Ŭ	ug/l	SW846 8260
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Location: PZ102 Sample ID: 09SB117 SB117 **Depth:** 14.0-15.0 FH009-SB117/04-07-98/14.0-15.0 4/7/98 COE Sample ID:

Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
<u>INORGANICS</u>							
Arsenic	7440-38-2	11.6	0.37			mg/kg	SW846 6010
Barium	7440-39-3	29.2	0.07			mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	19	0.08			mg/kg	SW846 6010
Lead	7439-92-1	11.1	0.22			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.26	0.26	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	400	400	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	400	400	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	400	400	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541 -7 3-1	400	400	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	400	400	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	U	U	ug/kg	SW846 8270

 Location:
 PZ102

 Sample ID:
 09SB117

 COE Sample ID:
 FH0

 Date Collected:
 4/7/98
 SB117 **Depth:** 14.0-15.0 FH009-SB117/04-07-98/14.0-15.0 4/7/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	Ü	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	400	400	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	400	400	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8 91-57-6	400 400	400 400	U U	U U	ug/kg	SW846 8270 SW846 8270
2-Methylnaphthalene	91-37-6 95-48-7	400	400	U	Ŭ	ug/kg ug/kg	SW846 8270 SW846 8270
2-Methylphenol 2-Nitroaniline	88-74-4	1900	1900	Ü	Ŭ	ug/kg ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	Ü	Ŭ	ug/kg ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	800	800	Ŭ	Ŭ	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	Ū	Ū	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	400	400	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	400	400	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	400	400	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	400	400	U U	U U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3 50-33-8	400 400	400 400	U	Ŭ	ug/kg ug/kg	SW846 8270 SW846 8270
Benzo(a)pyrene Benzo(b)fluoranthene	50-32-8 205-99-2	400 400	400	Ü	U	ug/kg ug/kg	SW846 8270 SW846 8270
Benzo(g,h,i)perylene	191-24-2	400	400	Ŭ	Ŭ	ug/kg ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	400	400	U	U	ug/kg ug/kg	SW846 8270
Benzoic Acid	65-85-0	280	1900	JВ	J	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	Ū	Ü	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	400	400	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	400	400	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	400	400	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	400	400	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	400	400	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	U U	U U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400 400	400 400	U	U	ug/kg	SW846 8270 SW846 8270
Fluoranthene Fluorene	206-44-0 86-73-7	400	400	U	U	ug/kg	SW846 8270 SW846 8270
Hexachlorobenzene	118-74-1	400	400	Ü	Ü	ug/kg ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	400	400	Ü	Ü	ug/kg ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	Ü	Ü	ug/kg ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	Ŭ	Ŭ	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	400	400	Ü	Ü	ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U	U	ug/kg	SW846 8270
Nitrobenzene	98 - 95-3	400	400	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	400	400	U	U	ug/kg	SW846 8270
Phenol	108-95-2	400	400	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	400	400	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	400	400	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8240
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8240

 Sample ID:
 09SB117
 Depth:
 14.0-15.0

 COE Sample ID:
 FH009-SB117/04-07-98/14.0-15.0

 Date Collected:
 4/7/98

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8240
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8240
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8240
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8240
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8240
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8240
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8240
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8240
1,2-Dichloropropane	78-87- 5	6	6	U	U	ug/kg	SW846 8240
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8240
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8240
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8240
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8240
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8240
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8240
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8240
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8240
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8240
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8240
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8240
Acetone	67-64-1	34	6			ug/kg	SW846 8240
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8240
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8240
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8240
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8240
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8240
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8240
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8240
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8240
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8240
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8240
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8240
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8240
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8240
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8240
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8240
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8240
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8240
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8240
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8240
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8240
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8240
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8240
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8240
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8240
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8240
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8240
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8240
Tetrachloroethene	127-18-4	6	6	Ū	Ū	ug/kg	SW846 8240
Toluene	108-88-3	6	6	Ü	Ü	ug/kg	SW846 8240
Trichloroethene	79-01-6	6	6	Ū	Ū	ug/kg	SW846 8240
Trichlorofluoromethane	75-69-4	6	6	Ū	Ü	ug/kg	SW846 8240
Vinyl Chloride	75-01-4	6	6	Ŭ	Ü	ug/kg	SW846 8240

 Location:
 PZ103

 Sample ID:
 09SB118

 COE Sample ID:
 FH0

 Date Collected:
 5/6/98
 3118 **Depth:** 14.5-16.0 FH009-SB118/05-06-98/14.5-16.0

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	6.8	0.19			mg/kg	SW846 6010
Barium	7440-39-3	3.8	0.14	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.03	0.03	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	3.4	0.08	_	J	mg/kg	SW846 6010
Lead	7439-92-1	4.8	0.15		•	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	1.2	1.2	NU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.13	0.13	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS 1,2,4,5-Tetrachlorobenzene	95-94-3	360	360	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	360	360	Ü	U	ug/kg ug/kg	SW846 8270
* *	95-50-1	360	360	Ü	Ü	ug/kg	SW846 8270
1,2-Dichlorobenzene	541-73-1	360	360	บ	Ŭ		SW846 8270
1,3-Dichlorobenzene				Ŭ	U	ug/kg	
1,4-Dichlorobenzene	106-46-7	360	360			ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	360	360	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	360	360	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51 -2 8-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	360	360	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	360	360	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	360	360	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	360	360	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	360	360	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	360	360	Ū	Ū	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	Ü	Ū	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	360	360	Ŭ	Ü	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	720	720	Ŭ	Ü	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	Ŭ	ug/kg ug/kg	SW846 8270
	534-52-1	1700	1700	U	U	ug/kg ug/kg	SW846 8270
4,6-Dinitro-o-Cresol			360	U	Ü		
4-Bromophenyl-phenyl Ether	101-55-3	360				ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	360	360	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	360	360	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	360	360	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	360	360	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	360	360	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	360	360	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	360	360	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	360	360	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	360	360	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	360	360	Ū	Ū	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	360	360	Ŭ	Ü	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	360	360	Ü	Ü	ug/kg ug/kg	SW846 8270
Benzoic Acid	65-85-0	170	1700	JВ	Ŭ	ug/kg ug/kg	SW846 8270
	100-51-6		360	U	Ü		
Benzyl Alcohol		360				ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	360	360	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	360	360	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	360	360	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	360	360	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	360	360	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	360	360	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	360	360	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	360	360	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	360	360	Ü	Ü	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	360	360	Ŭ	Ŭ	ug/kg	SW846 8270
Fluoranthene	206-44-0	360	360	Ü	Ü	ug/kg	SW846 8270
Fluorene	86-73-7	360	360	U	U	ug/kg ug/kg	SW846 8270
				U	U		
Hexachlorobenzene	118-74-1	360	360	U	U	ug/kg	SW846 8270

 Location:
 PZ103

 Sample ID:
 09SB118

 COE Sample ID:
 FH0

 Date Collected:
 5/6/98
 B118 **Depth:** 14.5-16.0 FH009-SB118/05-06-98/14.5-16.0

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	360	360	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	360	360	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	360	360	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	360	360	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	360	360	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	360	360	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	360	360	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	360	360	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	360	360	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	360	360	U	U	ug/kg	SW846 8270
Phenol	108-95-2	360	360	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	360	360	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	360	360	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	\mathbf{U}	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5 5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5 5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U U	U U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8 501-78-6	5 5	5	Ŭ	U	ug/kg ug/kg	SW846 8260 SW846 8260
2-Hexanone	591-78-6	5	5	U	U		SW846 8260 SW846 8260
4-Chlorotoluene	106-43-4 108-10-1	5	5	U	Ŭ	ug/kg ug/kg	SW846 8260
4-Methyl-2-pentanone		5	5	U	U		SW846 8260
Acetone	67-64-1 71-43-2	5	5	U	U	ug/kg ug/kg	SW846 8260
Benzene	108-86-1	5	5	U	· U	ug/kg ug/kg	SW846 8260
Bromobenzene Bromochloromethane	74-97-5	5	5	U	U	ug/kg ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg ug/kg	SW846 8260
Bromoform	75-27-4 75-25-2	5	5	U	U	ug/kg ug/kg	SW846 8260
Bromonethane	73-23-2 74-83-9	5	5	U	Ü	ug/kg ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	Ü	Ŭ	ug/kg ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	Ŭ	Ü	ug/kg ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	Ŭ	ug/kg ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	Ŭ	ug/kg ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	Ŭ	U	ug/kg ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
Dibromocniorometnane Dibromomethane	74-95-3	5	5	U	U	ug/kg ug/kg	SW846 8260
	75-71-8	5	5	U	Ü		SW846 8260
Dichlorodifluoromethane Ethylbenzene	75-71-8 100-41-4	5	5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
Etnylbenzene Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg ug/kg	SW846 8260
	87-68-3 98-82-8	5	5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
Isopropyl Benzene	98-82-8 13-302-07	5 5	5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
m,p-Xylene Methylene Chloride	13-302-07 75-09-2	5	5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
		5	5	U	U		
n-Butylbenzene	104-51-8	J	J	U	U	ug/kg	SW846 8260

B118 **Depth:** 14.5-16.0 FH009-SB118/05-06-98/14.5-16.0 09SB118 Sample ID: COE Sample ID: Date Collected:

5/6/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99 -87- 6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

 Location:
 PZ103

 Sample ID:
 09PZ101

 COE Sample ID:
 FH0

 Date Collected:
 6/2/98
 rZ101 **Depth:** NA FH009-PZ101/06-02-98 6/2/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	2.9	2.9	U	U	ug/l	SW846 6010
Barium	7440-39-3	113	0.6			ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	U	U	ug/l	SW846 6010
Chromium	7440-47-3	15.8	0.7			ug/l	SW846 6010
Lead	7439-92-1	7.9	1.5			ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	NU	UJ	ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	WNU	UJ	ug/l	SW846 7740
Silver	7440-22-4	2.2	1.4	В		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	10	10	Ŭ	Ŭ	ug/l	SW846 8270
1.2-Dichlorobenzene	95-50-1	10	10	Ŭ	Ü	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	Ŭ	Ü	ug/l	SW846 8270
1.4-Dichlorobenzene	106-46-7	10	10	Ŭ	Ü	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	Ŭ	Ŭ	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	Ū	Ū	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	Ŭ	Ŭ	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	Ū	Ü	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	Ü	U	ug/l	SW846 8270
2.6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270

Z101 **Depth:** NA FH009-PZ101/06-02-98 Sample ID: 09PZ101 COE Sample ID:
Date Collected:

6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	Ū	Ŭ	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	5	50	J	J	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J	J	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	Ü	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	Ū	ug/l	SW846 8270
Pyridine	110-86-1	10	10	U	U	ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	_	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	Ü	Ü	ug/l	SW846 8260
1,1,2-Trichloroethane	79-34-3 79-00-5	5	5	U	Ü	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	Ü	ug/l	SW846 8260
1,1-Dichloroethene	75-34-3 75-35-4	5	, •	U	U	ug/l ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	Ü	Ü		SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	
• •			5		U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5 5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1			U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260

 Sample ID:
 09PZ101

 COE Sample ID:
 FH0

 Date Collected:
 6/2/98

101 **Depth:** NA FH009-PZ101/06-02-98

6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8260

 Location:
 PZ104

 Sample ID:
 09SB119

 COE Sample ID:
 FH0

 Date Collected:
 5/6/98
 B119 **Depth:** 14.0-15.0 FH009-SB119/05-06-98/14.0-15.0

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	11.7	0.18			mg/kg	SW846 6010
Barium	7440-39-3	16	0.13	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.03	0.03	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	15.2	0.08		J	mg/kg	SW846 6010
Lead	7439-92-1	15.4	0.14			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	1.1	1.1	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.12	0.12	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	U	ug/kg	SW846 8270

Location: PZ104
Sample ID: 09SB119
COE Sample ID: FH00
Date Collected: 5/6/98

B119 **Depth:** 14.0-15.0 FH009-SB119/05-06-98/14.0-15.0

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	Ü	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	Ü	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	Ū	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	Ū	Ū	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	Ū	Ū	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	Ü	Ŭ	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	Ü	Ü	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	Ü	Ü	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	Ü	Ü	ug/kg ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U	Ŭ	ug/kg ug/kg	SW846 8270
Anthracene	120-12-7	350 350	350	U	U	ug/kg ug/kg	SW846 8270
	56-55-3	350 350	350	U	Ŭ	ug/kg ug/kg	SW846 8270
Benzo(a)anthracene	50-32-8	350 350	350	Ü	U		
Benzo(a)pyrene		350 350	350	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350 350	350 350	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2		350 350	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350			U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	160	1700	JВ	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	Ü	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	350	350	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	350	350	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	Ū	Ū	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	Ū	Ū	ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	Ü	Ŭ	ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	Ŭ	Ŭ	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	Ŭ	Ŭ	ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	Ü	U	ug/kg ug/kg	SW846 8270
Phenol	108-95-2	350	350	Ü	Ü	ug/kg ug/kg	SW846 8270
		350	350	U	U		
Pyrene	129-00-0	350	350	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	330	330	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
	< 0.0 0.0 f	_	_			_	
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260

 Location:
 PZ104

 Sample ID:
 09SB119

 COE Sample ID:
 FH0

 Date Collected:
 5/6/98
 B119 **Depth:** 14.0-15.0 FH009-SB119/05-06-98/14.0-15.0

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	9 5-5 0-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87- 5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location:SB101Sample ID:09SB101COE Sample ID:FH0Date Collected:1/8/97

101 **Depth:** 0.0-1.0 FH009-SB101/01-08-97/0.0-1.0

1/8/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	<u>Method</u>
INORGANICS							
Arsenic	7440-38-2	3.6	0.39			mg/kg	SW846 6010
Barium	7440-39-3	9.9	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.14	0.05	В		mg/kg	SW846 6010
Chromium	7440-47-3	4	0.09	E*	J	mg/kg	SW846 6010
Lead	7439-92-1	4.1	0.16	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U*	UJ	mg/kg	SW846 7470
Selenium	7782-49-2	0.33	0.33	UWN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	Ü		ug/kg ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	Ü		ug/kg ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	Ŭ		ug/kg ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	390	390	Ü		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	Ŭ		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	Ü		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	Ŭ		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	Ŭ		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	Ü		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	Ŭ		ug/kg	SW846 8270
2.4-Dinitrotoluene	121-14-2	390	390	Ŭ		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	390	390	Ŭ		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	Ŭ		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	Ŭ		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	Ŭ		ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	Ŭ		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	Ū		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	Ü		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	780	780	Ŭ		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	Ü		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	Ū		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	390	390	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	U		ug/kg	SW846 8270
Anthracene	120-12-7	390	390	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	390	390	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	390	390	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	390	390	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	390	390	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U		ug/kg	SW846 8270
Chrysene	218-01-9	390	390	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	390	390	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	Ū		ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	Ü		ug/kg	SW846 8270
Fluorene	86-73-7	390	390	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U		ug/kg	SW846 8270
						-	

Location: SB101
Sample ID: 099
COE Sample ID:
Date Collected: 101 **Depth:** 0.0-1.0 FH009-SB101/01-08-97/0.0-1.0 09SB101

1/8/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	390	390	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U		ug/kg	SW846 8270
Isophorone	78-59-1	390	390	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390	U		ug/kg	SW846 8270
Naphthalene	91-20-3	390	390	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900 390	U U		ug/kg	SW846 8270
Phenanthrene	85-01-8 108-95-2	390 390	390	U		ug/kg ug/kg	SW846 8270 SW846 8270
Phenol	129-00-0	390	390	Ü		ug/kg ug/kg	SW846 8270
Pyrene Pyridine	110-86-1	390	390	Ŭ		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6 6	U U	U U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6 6	6	U	Ŭ	ug/kg ug/kg	SW846 8260 SW846 8260
1,2-Dichlorobenzene	95-50-1 107-06-2	6	6	U	U	ug/kg ug/kg	SW846 8260
1,2-Dichloroethane	78-87-5	6	6	U	Ü	ug/kg ug/kg	SW846 8260
1,2-Dichloropropane 1,2-trans-Dichloroethene	156-60-5	6	6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	Ü	Ü	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	Ū	Ū	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	5	6	J	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U U	U U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6 6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260 SW846 8260
Chloromethane	74-87-3	6 6	6	U	U	ug/kg ug/kg	SW846 8260
Dibromochloromethane	124-48-1 74-95-3	6	6	U	U	ug/kg ug/kg	SW846 8260
Dibromomethane Dichlorodifluoromethane	74-93-3 75-71-8	6	6	U	U	ug/kg ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	Ü	ug/kg ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
				Ü			
Methylene Chloride	75-09-2	6	6		U	ug/kg	SW846 8260

Location: SB101

 Sample ID:
 09SB101
 Depth:
 0.0-1.0

 COE Sample ID:
 FH009-SB101/01-08-97/0.0-1.0

Date Collected: 1/8/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	3	6	J	J	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101

Date Collected: 1/8/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	5.9	0.42			mg/kg	SW846 6010
Barium	7440-39-3	19.6	0.1			mg/kg	SW846 6010
Cadmium	7440-43-9	0.2	0.05	В		mg/kg	SW846 6010
Chromium	7440-47-3	11.4	0.1	E*	J	mg/kg	SW846 6010
Lead	7439-92-1	6.7	0.18	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U*	UJ	mg/kg	SW846 7470
Selenium	7782-49-2	0.36	0.36	UN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.24	0.24	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	420	420	U		ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	420	420	Ū		ug/kg	SW846 8270
1.2-Dichlorobenzene	95-50-1	420	420	Ü		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	420	420	Ü		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	420	420	Ŭ		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	420	420	Ŭ		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	Ü		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	420	420	Ü		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	420	420	Ü		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	420	420	Ü		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	Ŭ		ug/kg	SW846 8270
2.4-Dinitrotoluene	121-14-2	420	420	Ü		ug/kg	SW846 8270
2.6-Dinitrotoluene	606-20-2	420	420	Ŭ		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	420	420	Ü		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	420	420	Ü		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	420	420	Ü		ug/kg	SW846 8270
2-Methylphenol	95-48-7	420	420	Ü		ug/kg ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	Ü		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	420	420	Ü		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	850	850	Ü		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	Ŭ		ug/kg	SW846 8270
4.6-Dinitro-o-Cresol	534-52-1	2000	2000	Ü		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	420	420	Ŭ		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	420	420	Ü		ug/kg ug/kg	SW846 8270
4-Chloroaniline	106-47-8	420	420	U		ug/kg ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	420	420	Ü		ug/kg ug/kg	SW846 8270
4-Methylphenol	106-44-5	420	420	U		ug/kg ug/kg	SW846 8270
4-Nitroaniline	100-44-5	2000	2000	U		ug/kg ug/kg	SW846 8270
4-Nitrophenol	100-01-0	2000	2000	U		ug/kg ug/kg	SW846 8270
Acenaphthene	83-32-9	420	420	U		ug/kg ug/kg	SW846 8270
Acenaphulene	03-34-9	420	420	U		ng/kg	3 W 040 02/U

Location: SB101

 Sample ID:
 09SB102
 Depth:
 14.5-16.0

 COE Sample ID:
 FH009-SB102/01-08-97/14.5-16.0

 Date Collected:
 1/8/97

Parameter Parameter	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	420	420	U		ug/kg	SW846 8270
Anthracene	120-12-7	420	420	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	420	420	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	420	420	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	420	420	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	420	420	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	420	420	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	420	420	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	420	420	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	420	420	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	420	420	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	420	420	U		ug/kg	SW846 8270
Chrysene	218-01-9	420	420	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	420	420	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	420	420	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	420	420	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	420	420	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	420	420	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	420	420	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	420	420	U		ug/kg	SW846 8270
Fluorene	86-73-7	420	420	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	420	420	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	420	420	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	420	420	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	420	420	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	420	420	U		ug/kg	SW846 8270
Isophorone	78-59-1	420	420	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	420	420	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	420	420	U		ug/kg	SW846 8270
Naphthalene	91-20-3	420	420	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	420	420	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	420	420	U		ug/kg	SW846 8270
Phenol	108-95-2	420	420	U		ug/kg	SW846 8270
Pyrene	129-00-0	420	420	U		ug/kg	SW846 8270
Pyridine	110-86-1	420	420	U		ug/kg	SW846 8270
VOLATILE ORGANICS						_	
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	· U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	\mathbf{U}	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1.2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	Ü	U	ug/kg	SW846 8260
	541-73-1	6	6	Ū	Ū	ug/kg	SW846 8260
			6	Ü	Ü	ug/kg	SW846 8260
1,3-Dichlorobenzene		6	0	U			
1,3-Dichlorobenzene 1,3-Dichloropropane	142-28-9	6 6					
1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene	142-28-9 106-46-7	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 2,2-Dichloropropane	142-28-9 106-46-7 594-20-7	6 6	6 6	U U	U U	ug/kg ug/kg	SW846 8260 SW846 8260
1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene	142-28-9 106-46-7	6	6	U	U	ug/kg	SW846 8260

 Location:
 SB101

 Sample ID:
 09SB102

 COE Sample ID:
 FH0

 Date Collected:
 1/8/97
 102 **Depth:** 14.5-16.0 FH009-SB102/01-08-97/14.5-16.0

1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	8	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg ·	SW846 8260
Dibromomethane	74-95-3	3	6	J	J	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U ·	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	\mathbf{U}	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	\mathbf{U}	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101

SB103 **Depth:** 24.5-25.5 FH009-SB103/01-08-97/24.5-25.5 1/8/97 Sample ID: COE Sample ID:
Date Collected: 09SB103

					D . O .	•••	
<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	4.5	0.37			mg/kg	SW846 6010
Barium	7440-39-3	13.2	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.17	0.04	В		mg/kg	SW846 6010
Chromium	7440-47-3	5.8	0.09	E*	J	mg/kg	SW846 6010
Lead	7439-92-1	5.9	0.16	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U*	UJ	mg/kg	SW846 7470
Selenium	7782-49-2	0.31	0.31	UN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	370	370	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	370	370	U		ug/kg	SW846 8270
1.2-Dichlorobenzene	95-50-1	370	370	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	370	370	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	370	370	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	370	370	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg	SW846 8270

 Location:
 SB101

 Sample ID:
 09SB103
 Depth:
 24.5-25.5

 COE Sample ID:
 FH009-SB103/01-08-97/24.5-25.5

 Date Collected:
 1/8/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,6-Trichlorophenol	88-06-2	370	370	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	370	370	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	370	370	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	370	370 370	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	370 370	370 370	U U		ug/kg	SW846 8270
2-Chloronaphthalene 2-Chlorophenol	91-58-7 95-57-8	370 370	370 370	Ŭ		ug/kg ug/kg	SW846 8270 SW846 8270
2-Methylnaphthalene	91-57-6	370	370	Ŭ		ug/kg ug/kg	SW846 8270
2-Methylphenol	95-48-7	370	370	Ū		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1800	1800	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	370	370	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	730	730	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	U U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3 59-50-7	370 370	370 370	U		ug/kg	SW846 8270 SW846 8270
4-chloro-3-methylphenol 4-Chloroaniline	106-47-8	370 370	370 370	U		ug/kg ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	370	370	Ü		ug/kg ug/kg	SW846 8270
4-Methylphenol	106-44-5	370	370	Ü		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	370	370	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	370	370	U		ug/kg	SW846 8270
Anthracene	120-12-7	370	370	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	370	370	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	370 370	370 370	U U		ug/kg ug/kg	SW846 8270 SW846 8270
Benzo(b)fluoranthene Benzo(g,h,i)perylene	205-99-2 191-24-2	370 370	370 370	U		ug/kg ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	370	370	Ŭ		ug/kg ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	Ŭ		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	370	370	Ū		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	370	370	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	40	370	J		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	370	370	U		ug/kg	SW846 8270
Chrysene	218-01-9	370 370	370 370	U U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2 117-84-0	370 370	370 370	U		ug/kg ug/kg	SW846 8270 SW846 8270
Di-n-octyl Phthalate Dibenz(a,h)anthracene	53-70-3	370 370	370	Ŭ		ug/kg ug/kg	SW846 8270
Dibenzofuran	132-64-9	370	370	Ü		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	370	370	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	370	370	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	370	370	U		ug/kg	SW846 8270
Fluorene	86-73-7	370	370	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	370	370	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	370	370 370	U U		ug/kg	SW846 8270
Hexachlorocyclopentadiene Hexachloroethane	77-47-4 67-72-1	370 370	370 370	U		ug/kg ug/kg	SW846 8270 SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	370 370	370	Ü		ug/kg ug/kg	SW846 8270
Isophorone	78-59-1	370	370	Ü		ug/kg ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	370	370	Ŭ		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	370	370	U		ug/kg	SW846 8270
Naphthalene	91-20-3	370	370	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	370	370	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	370	370	U		ug/kg	SW846 8270
Phenol	108-95-2	370 370	370 370	U		ug/kg	SW846 8270
Pyrene Pyridina	129-00-0	370 370	370 370	ប ប		ug/kg	SW846 8270 SW846 8270
Pyridine	110-86-1	370	370	U		ug/kg	3 W 040 82/U
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260

 Location:
 SB101

 Sample ID:
 09SB103

 COE Sample ID:
 FH00

 Date Collected:
 1/8/97
 B103 **Depth:** 24.5-25.5 FH009-SB103/01-08-97/24.5-25.5

Date Concette. 17677							
Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1.1.2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1.1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	\mathbf{U}	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	16	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	\mathbf{U}	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	\mathbf{U}	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	3	6	J	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	4	6	J	J	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Tricino oriuo oriicularic							

Location: SB102 Sample ID: 09SB109 SB109 **Depth:** 0.0-1.0 FH009-SB109/03-06-97/0.0-1.0 3/6/97 COE Sample ID: Date Collected:

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	2.7	0.38			mg/kg	SW846 6010
Barium	7440-39-3	36	0.07	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	5.8	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	5	0.22			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.3	1.3	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	400	400	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	400	400	Ū	Ŭ	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	400	400	Ū	Ŭ	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	400	400	Ū	Ū	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	400	400	Ū	Ŭ	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	Ū	Ū	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	Ū	Ū	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	Ū	Ü	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	Ū	Ū	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	Ü	Ŭ	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	400	400	Ŭ	Ü	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	400	400	Ŭ	Ü	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	Ü	Ŭ	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	400	400	Ū	Ū	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	400	400	Ü	Ū	ug/kg	SW846 8270
2-Methylphenol	95-48-7	400	400	Ū	Ü	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	Ū	Ū	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	Ū	Ū	ug/kg	SW846 8270
3.3'-Dichlorobenzidine	91-94-1	800	800	Ū	Ū	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	400	400	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	400	400	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	400	400	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	400	400	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	400	400	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	400	400	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	400	400	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	400	400	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	400	400	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	Ü	Ū	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	400	400	Ū	Ū	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	Ü	U	ug/kg	SW846 8270
Chrysene	218-01-9	400	400	Ü	Ū	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	400	400	Ü	Ü	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	400	400	Ŭ	Ü	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	400	400	Ŭ	Ü	ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	Ŭ	Ŭ	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	Ŭ	Ü	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400	400	Ŭ	Ü	ug/kg	SW846 8270
•	206-44-0	400	400	U	U	ug/kg	SW846 8270
Fluoranthene Fluorene	206-44-0 86-73-7	400 400	400 400	U U	U U	ug/kg ug/kg	SW846 8270 SW846 8270

Location: SB102
Sample ID: 095
COE Sample ID:
Date Collected: SB109 **Depth:** 0.0-1.0 FH009-SB109/03-06-97/0.0-1.0 3/6/97 09SB109

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	400	400	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	400	400	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	400	400	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	400	400	U	U	ug/kg	SW846 8270
Phenol	108-95-2	400	400	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	400	400	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	400	400	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156 - 60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6 6	U U	U U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U		ug/kg	SW846 8260
Dibromomethane	74-95-3	6			U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	2	6	J	J	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260

Location: SB102 Sample ID: 095 COE Sample ID: Date Collected:

109 **Depth:** 0.0-1.0 FH009-SB109/03-06-97/0.0-1.0 09SB109

3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	6	J	J	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB102 Sample ID: 098

09SB110

COE Sample ID:

Date Collected:

110 **Depth:** 8.0-9.0 FH009-SB110/03-06-97/8.0-9.0

3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	4	0.41			mg/kg	SW846 6010
Barium	7440-39-3	16.2	0.08	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.07	0.07	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	9.2	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	5.9	0.24			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.4	1.4	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	430	430	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	430	430	Ŭ	Ŭ	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	430	430	Ŭ	Ŭ	ug/kg	SW846 8270
1.3-Dichlorobenzene	541-73-1	430	430	Ü	Ū	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	430	430	Ū	Ŭ	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	430	430	Ŭ	Ŭ	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2100	2100	Ü	Ŭ	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	430	430	Ü	Ŭ	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	430	430	Ŭ	Ŭ	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	430	430	Ü	Ŭ	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2100	2100	Ü	Ŭ	ug/kg	SW846 8270
2.4-Dinitrotoluene	121-14-2	430	430	Ü	Ü	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	430	430	Ü	Ü	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	430	430	Ü	Ŭ	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	430	430	Ü	Ŭ	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	430	430	Ŭ	Ü	ug/kg	SW846 8270
2-Methylphenol	95-48-7	430	430	Ü	Ŭ	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2100	2100	Ŭ	Ŭ	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	430	430	Ŭ	Ü	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	860	860	Ü	Ŭ	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2100	2100	Ŭ	Ŭ	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2100	2100	Ŭ	Ŭ	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	430	430	Ŭ	Ŭ	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	430	430	Ü	Ŭ	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	430	430	Ü	Ŭ	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	430	430	Ü	Ŭ	ug/kg	SW846 8270
4-Methylphenol	106-44-5	430	430	Ü	Ü	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2100	2100	Ü	Ü	ug/kg	SW846 8270
4-Nitrophenol	100-01-0	2100	2100	Ü	Ü	ug/kg ug/kg	SW846 8270
Acenaphthene	83-32-9	430	430	U	U	ug/kg ug/kg	SW846 8270
Accuaptimente	03-32-7	730	130	· ·	Č	46 V.P	5110100270

 Location:
 SB102

 Sample ID:
 09SB110
 Depth:
 8.0-9.0

 COE Sample ID:
 FH009-SB110/03-06-97/8.0-9.0

 Date Collected:
 3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	430	430	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	430	430	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	430	430	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	430	430	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	430	430	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	430	430	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	430	430	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2100	2100	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	430	430	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	430	430	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	430	430	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	430	430	U U	U U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	430	430 430	Ü	U	ug/kg	SW846 8270 SW846 8270
Chrysene	218-01-9	430	430	Ü	U	ug/kg ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2 117-84-0	430 430	430	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Di-n-octyl Phthalate	53-70-3	430	430	Ü	Ü	ug/kg ug/kg	SW846 8270
Dibenz(a,h)anthracene	13 2- 64-9	430	430	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Dibenzofuran	84-66-2	430	430	U	Ü	ug/kg ug/kg	SW846 8270
Diethyl Phthalate	131-11-3	430	430	U	Ü	ug/kg ug/kg	SW846 8270
Dimethyl Phthalate Fluoranthene	206-44-0	430	430	U	Ü	ug/kg	SW846 8270
Fluorene	86-73-7	430	430	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	430	430	Ŭ	Ŭ	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	430	430	Ŭ	Ü	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	430	430	Ü	Ŭ	ug/kg	SW846 8270
Hexachloroethane	67-72-1	430	430	Ū	Ū	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	430	430	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	430	430	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	430	430	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	430	430	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	430	430	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	430	430	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2100	2100	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	430	430	U	U	ug/kg	SW846 8270
Phenol	108-95-2	430	430	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	430	430	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	430	430	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	· U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 098
COE Sample ID:
Date Collected: 110 **Depth:** 8.0-9.0 FH009-SB110/03-06-97/8.0-9.0 09SB110

3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	6 7- 64-1	29	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	8	6			ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	\mathbf{U}	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB111
COE Sample ID: FH0
Date Collected: 3/6/97 111 **Depth:** 15.0-15.5 FH009-SB111/03-06-97/15.0-15.5

3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	3.5	0.39			mg/kg	SW846 6010
Barium	7440-39-3	13.8	0.08	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	5.2	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	5.4	0.23			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.4	1.4	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	410	410	U	U	ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	410	410	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	410	410	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	410	410	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	410	410	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	410	410	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270

Location:SB102Sample ID:09SB111COE Sample ID:FH00Date Collected:3/6/97 9SB111 **Depth:** 15.0-15.5 FH009-SB111/03-06-97/15.0-15.5 3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,6-Trichlorophenol	88-06-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	410	410	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	410	410	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	410	410	U U	U	ug/kg	SW846 8270
2-Chloronaphthalene 2-Chlorophenol	91-58-7 95-57-8	410 410	410 410	U	U U	ug/kg ug/kg	SW846 8270 SW846 8270
2-Methylnaphthalene	93-57-6 91-57-6	410	410	U	U	ug/kg ug/kg	SW846 8270
2-Methylphenol	95-48-7	410	410	Ü	Ü	ug/kg ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	Ü	Ū	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	410	410	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	820	820	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	410	410	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	410 410	410 410	U U	U U	ug/kg	SW846 8270 SW846 8270
4-Chloroaniline 4-Chlorophenyl-phenylether	106-47-8 7005-72-3	410	410	U	U	ug/kg ug/kg	SW846 8270
4-Chlorophenyl-phenyledier 4-Methylphenol	106-44-5	410	410	Ü	Ü	ug/kg ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	Ŭ	Ū	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	Ū	Ū	ug/kg	SW846 8270
Acenaphthene	83-32-9	410	410	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	410	410	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	410	410	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	410	410	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	410	410	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	410	410 410	U U	U U	ug/kg	SW846 8270 SW846 8270
Benzo(g,h,i)perylene	191-24-2 207-08-9	410 410	410	U	U	ug/kg ug/kg	SW846 8270 SW846 8270
Benzo(k)fluoranthene Benzoic Acid	65-85-0	2000	2000	Ü	U	ug/kg ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	410	410	Ŭ	Ŭ	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	410	410	Ü	Ŭ	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	410	410	Ū	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	410	410	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	410	410	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	410	410	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	410	410	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	410	410	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3 13 2- 64-9	410 410	410 410	U U	U U	ug/kg	SW846 8270 SW846 8270
Dibenzofuran Diethyl Phthalate	84-66-2	410	410	U	U	ug/kg ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	410	410	Ü	Ŭ	ug/kg ug/kg	SW846 8270
Fluoranthene	206-44-0	410	410	Ŭ	Ŭ	ug/kg	SW846 8270
Fluorene	86-73-7	410	410	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	410	410	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	410	410	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	410	410	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	410	410	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	410	410	U	U	ug/kg	SW846 8270
Isophorone N-Nitroso-di-n-propylamine	78-59-1	410 410	410 410	U U	U U	ug/kg	SW846 8270 SW846 8270
N-Nitrosodiphenylamine	621-64-7 86-30-6	410	410	U	Ü	ug/kg ug/kg	SW846 8270
Naphthalene	91-20-3	410	410	Ü	Ü	ug/kg ug/kg	SW846 8270
Nitrobenzene	98-95-3	410	410	Ū	Ū	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	Ū	Ū	ug/kg	SW846 8270
Phenanthrene	85-01-8	410	410	U	U	ug/kg	SW846 8270
Phenol	108-95-2	410	410	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	410	410	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	410	410	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS	(20.00.5		,	••	••	*	QWQ 44 00 44
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	71-55-6 79-34-5	6 6	6 6	U U	U U	ug/kg ug/kg	SW846 8260 SW846 8260
1,1,2,2-1 cu acino ocuiane	17 - 3 4- 3	O	O	U	U	ug/Kg	3 W 040 0200

 Location:
 SB102

 Sample ID:
 09SB111

 COE Sample ID:
 FH0

 Date Collected:
 3/6/97
 B111 **Depth:** 15.0-15.5 FH009-SB111/03-06-97/15.0-15.5

3/6/97

Parameter Parame	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	\mathbf{U}	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	\mathbf{U}	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6 6	U U	U U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6 6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260 SW846 8260
1,3-Dichloropropane	14 2-2 8-9 106-46-7	6	6	U	U	ug/kg	SW846 8260 SW846 8260
1,4-Dichlorobenzene	594-20-7	6	6	U	Ŭ	ug/kg ug/kg	SW846 8260
2,2-Dichloropropane 2-Butanone	78-93-3	6	6	Ü	U	ug/kg ug/kg	SW846 8260
2-Butanone 2-Chlorotoluene	95-49-8	6	6	U	Ŭ	ug/kg ug/kg	SW846 8260
2-Chlorotoluene 2-Hexanone	591-78-6	6	6	U	U	ug/kg ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg ug/kg	SW846 8260
4-Chlorotoldene 4-Methyl-2-pentanone	108-10-1	6	6	U	Ü	ug/kg ug/kg	SW846 8260
Acetone	67-64-1	12	6	· ·	Ü	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	Ü	Ŭ	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	Ū	Ū	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	Ü	Ū	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	Ū	Ü	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	4	6	J	J	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

SB112 **Depth:** 24.0-25.0 FH009-SB112/03-06-97/24.0-25.0 3/6/97 Sample ID: 0
COE Sample ID:
Date Collected: 09SB112

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	5.7	0.33			mg/kg	SW846 6010
Barium	7440-39-3	3.3	0.06	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.05	0.05	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	1.6	0.08	E	J	mg/kg	SW846 6010
Lead	7439-92-1	4.8	0.19			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.2	1.2	UE	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.18	0.18	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	350	350 350	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350 350	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	350 350	350 350	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350 350	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350 350	350 350	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350 350	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350 350	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350 350	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350 350	350 350	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	U	ug/kg	SW846 8270

 Location:
 SB102

 Sample ID:
 09SB112

 COE Sample ID:
 FH00

 Date Collected:
 3/6/97
 BB112 **Depth:** 24.0-25.0 FH009-SB112/03-06-97/24.0-25.0

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	350	350	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U	U	ug/kg	SW846 8270
Hexachloroethane	6 7-72- 1	350	350	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	350	350	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U	U	ug/kg	SW846 8270
Phenol	108-95-2	350	350	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	\mathbf{U}	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	46	5			ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
			_	* *			
Methylene Chloride	75-09-2	5 5	5 5	U U	U U	ug/kg ug/kg	SW846 8260

Location: SB102 Sample ID: 09SB112 B112 **Depth:** 24.0-25.0 FH009-SB112/03-06-97/24.0-25.0 COE Sample ID:
Date Collected:

3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

 Location:
 SB103

 Sample ID:
 09SB106

 COE Sample ID:
 FH0

 Date Collected:
 3/5/97
 B106 **Depth:** 0.0-1.0 FH009-SB106/03-05-97/0.0-1.0

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	3	0.38	*	J	mg/kg	SW846 6010
Barium	7440-39-3	50	0.07			mg/kg	SW846 6010
Cadmium	7440-43-9	0.1	0.06	В		mg/kg	SW846 6010
Chromium	7440-47-3	11.5	0.09	EN*	J	mg/kg	SW846 6010
Lead	7439-92-1	6.9	0.22	E*	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.3	1.3	UWN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	400	400	U	U	ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	400	400	U	U	ug/kg	SW846 8270
1.2-Dichlorobenzene	95-50-1	400	400	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	400	400	U	U	ug/kg	SW846 8270
1.4-Dichlorobenzene	106-46-7	400	400	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	400	400	U	U	ug/kg	SW846 8270
2.6-Dinitrotoluene	606-20-2	400	400	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	400	400	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	400	400	Ū	Ū	ug/kg	SW846 8270
2-Methylphenol	95-48-7	400	400	Ū	Ū	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	Ū	Ū	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	800	800	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	Ū	Ū	ug/kg	SW846 8270
4.6-Dinitro-o-Cresol	534-52-1	2000	2000	Ü	Ü	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	Ŭ	Ŭ	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	Ŭ	Ŭ	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	400	400	Ŭ	Ü	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	Ŭ	Ü	ug/kg	SW846 8270
4-Methylphenol	106-44-5	400	400	Ü	Ü	ug/kg ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	Ü	Ü	ug/kg	SW846 8270
4-Nitrophenol	100-01-0	2000	2000	Ü	Ü	ug/kg ug/kg	SW846 8270

SB106 **Depth:** 0.0-1.0 FH009-SB106/03-05-97/0.0-1.0 Sample ID: 09SB106 COE Sample ID:
Date Collected:

3/5/97

Parameter Parameter	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthene	83-32-9	400	400	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	400	400	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	400	400	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	400	400	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	400	400	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	400	400	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	400	400	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	400	400	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	400	400	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	400	400	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	400	400	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	400	400	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400	400	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	400	400	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	400	400	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	400	400	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	400	400	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	400	400	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	400	400	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	Ū	Ū	ug/kg	SW846 8270
Phenanthrene	85-01-8	400	400	U	U	ug/kg	SW846 8270
Phenol	108-95-2	400	400	Ū	Ū	ug/kg	SW846 8270
Pyrene	129-00-0	400	400	Ū	Ü	ug/kg	SW846 8270
Pyridine	110-86-1	400	400	Ū	Ū	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1.1.1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1.1.2-Trichloroethane	79-00-5	6	6	\mathbf{U}	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	Ü	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	Ū	Ū	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	Ü	Ü	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	Ü	Ŭ	ug/kg	SW846 8260
1.2-Dibromoethane	106-93-4	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1.3.5-trimethylbenzene	108-67-8	6	6	U	Ŭ		SW846 8260
, ,	541-73-1	6	6	U	U	ug/kg ug/kg	SW846 8260
1,3-Dichloropenene		6	6	Ŭ	U		
1,3-Dichloropropane	142-28-9					ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6 6	6 6	U U	U U	ug/kg	SW846 8260 SW846 8260
2-Chlorotoluene	95-49-8					ug/kg	

Location: SB103 Sample ID: 098 COE Sample ID: Date Collected:

09SB106 **Depth:** 0.0-1.0 **D:** FH009-SB106/03-05-97/0.0-1.0

3/5/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	17	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 09SB107
COE Sample ID: FH0
Date Collected: 3/5/97

B107 **Depth:** 14.0-15.0 FH009-SB107/03-05-97/14.0-15.0

3/5/97

Parameter	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	4.2	0.37	*	J	mg/kg	SW846 6010
Barium	7440-39-3	11.2	0.07			mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	6.6	0.08	EN*	J	mg/kg	SW846 6010
Lead	7439-92-1	7	0.21	E*	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.3	1.3	UN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U	U	ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	390	390	Ū	Ü	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	Ū	Ū	ug/kg	SW846 8270
1.3-Dichlorobenzene	541-73-1	390	390	Ü	Ü	ug/kg	SW846 8270
1.4-Dichlorobenzene	106-46-7	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	Ŭ	Ŭ	ug/kg	SW846 8270

 Location:
 SB103

 Sample ID:
 09SB107
 Depth:
 14.0-15.0

 COE Sample ID:
 FH009-SB107/03-05-97/14.0-15.0

 Date Collected:
 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	390	390	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	390	390	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	780	780	Ü	U U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900 1900	Ŭ	U	ug/kg	SW846 8270 SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900 390	390	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390 390	390	U	U	ug/kg ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7 106-47-8	390	390	U	U	ug/kg ug/kg	SW846 8270
4-Chloropheryl phanylether	7005-72-3	390	390	Ü	U	ug/kg ug/kg	SW846 8270
4-Chlorophenyl-phenylether 4-Methylphenol	106-44-5	390	390	Ü	U	ug/kg ug/kg	SW846 8270
4-Nitroaniline	100-44-3	1900	1900	Ü	Ŭ	ug/kg ug/kg	SW846 8270
4-Nitrophenol	100-01-0	1900	1900	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Acenaphthene	83-32-9	390	390	Ü	U	ug/kg ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Anthracene	120-12-7	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	Ü	Ü	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	390	390	Ū	Ū	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	390	390	Ū	Ū	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	Ü	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	390	390	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	390	390	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	390	390	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	390	390	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	390	390	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	390	390	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	390	390	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	390	390	U	U	ug/kg	SW846 8270
Phenol	108-95-2	390	390	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	390	390	U U	U	ug/kg	SW846 8270
Pyridine	110-86-1	390	390	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS	(20.20.4	_		**	* 1	#	034046.0060
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260

Location:SB103Sample ID:09SB107COE Sample ID:FH0Date Collected:3/5/97 SB107 **Depth:** 14.0-15.0 FH009-SB107/03-05-97/14.0-15.0 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	11	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108 - 86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	J	J	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	Ü	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	Ū	Ū	ug/kg	SW846 8260
Toluene	108-88-3	6	6	Ū	Ŭ	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	Ŭ	Ü	ug/kg	SW846 8260
i i cino on dollegiane	13-03-4	U	U				O 11 070 0200

 Location:
 SB103

 Sample ID:
 09SB108

 COE Sample ID:
 FH0

 Date Collected:
 3/5/97
 B108 **Depth:** 24.0-25.0 FH009-SB108/03-05-97/24.0-25.0

3/5/97

Barium	mg/kg ug/kg	SW846 6010 SW846 6010 SW846 6010 SW846 6010 SW846 6010 SW846 7470 SW846 7740 SW846 7740 SW846 8270 SW846 8270
Parium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg ug/kg	SW846 6010 SW846 6010 SW846 6010 SW846 6010 SW846 6010 SW846 6010 SW846 7740 SW846 7740 SW846 8270
Cadmium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg ug/kg	SW846 6010 SW846 6010 SW846 6010 SW846 7470 SW846 7740 SW846 6010 SW846 8270 SW846 8270
Cadmium	mg/kg mg/kg mg/kg mg/kg mg/kg ug/kg	SW846 6010 SW846 6010 SW846 7470 SW846 7740 SW846 6010 SW846 8270 SW846 8270
Chromium	mg/kg mg/kg mg/kg mg/kg mg/kg ug/kg	SW846 6010 SW846 7470 SW846 7740 SW846 7740 SW846 6010 SW846 8270 SW846 8270
Lead 7439-92-1 3.3 0.19 E* J The Mercury 7439-97-6 0.04 0.04 0.04 U U The Selenium 7782-49-2 1.2 1.2 UWN UJ The Selenium 7782-49-2 1.2 1.2 UWN UJ The Selenium 740-22-4 0.18 0.18 U U The Selenium 740-22-4 U The Selenium 740-22-42-4 U U The Selenium 740-22-42-42-42-42-42-42-42-42-42-42-42-42-	mg/kg mg/kg mg/kg mg/kg ug/kg	SW846 7470 SW846 7740 SW846 6010 SW846 8270 SW846 8270
Mercury 7439-97-6 0.04 0.04 U U T Selenium 7782-49-2 1.2 1.2 UWN UJ T T T T T T T T T	mg/kg mg/kg mg/kg ug/kg	SW846 7470 SW846 7740 SW846 6010 SW846 8270 SW846 8270
Selenium 7782-49-2	mg/kg mg/kg mg/kg ug/kg	SW846 7740 SW846 6010 SW846 8270 SW846 8270
Silver 7440-22-4	mg/kg ug/kg	SW846 6010 SW846 8270
1,2,4,5-Tetrachlorobenzene	ug/kg	SW846 8270 SW846 8270
1,2,4,5-Tetrachlorobenzene	ug/kg	SW846 8270 SW846 8270
1.2.4-Trichlorobenzene	ug/kg	SW846 8270 SW846 8270
1,2-Dichlorobenzene	ug/kg	SW846 8270 SW846 8270
1,3-Dichlorobenzene	ug/kg	SW846 8270 SW846 8270
1,4-Dichlorobenzene	ug/kg	SW846 8270 SW846 8270
2,2'-oxybis(1-chloropropane) 108-60-1 350 350 U U 102,4'5-Trichlorophenol 95-95-4 1700 1700 U U 102,4'5-Trichlorophenol 38-06-2 350 350 U U U 102,4'5-Trichlorophenol 120-83-2 350 350 U U U 102,4'5-Dichlorophenol 120-83-2 350 350 U U U 102,4'5-Dichlorophenol 105-67-9 350 350 U U U 102,4'5-Dinitrophenol 121-14-2 350 350 U U U 102,4'5-Dinitrophenol 121-14-2 350 350 U U U 102,4'5-Dinitrotoluene 91-58-7 350 350 U U U 102,4'5-Dinitrotoluene 91-57-6 350 350 U U U 102,4'5-Dinitrotoluene 91-57-6 350 350 U U U 102,4'5-Dinitrotoluene 91-57-6 350 350 U U U 102,4'5-Dinitrotoluene 91-94-1 710 7100 U U 102,5'5-Dinitrotoluene 91-94-1 710 7100 U U 102,5'5-Dinitrotoluene 91-94-1 7100 7100 U U 102,5'5-Dinitrotolu	ug/kg	SW846 8270 SW846 8270
2.4,5-Trichlorophenol	ug/kg	SW846 8270 SW846 8270
2.4,6-Trichlorophenol 88-06-2 350 350 U U U U U U U U U U U U U U U U	ug/kg	SW846 8270 SW846 8270
2,4-Dichlorophenol 120-83-2 350 350 U U U 2,4-Dimethylphenol 105-67-9 350 350 U U U 2,4-Dimitrophenol 51-28-5 1700 1700 U U 2,4-Dimitrotoluene 121-14-2 350 350 U U U 2,6-Dimitrotoluene 606-20-2 350 350 U U U 2,6-Dimitrotoluene 91-58-7 350 350 U U U 2,6-Dimitrophenol 95-48-7 350 350 U U U 2,6-Dimitrophenol 88-75-5 350 350 U U U 2,7-Nitrophenol 88-75-5 350 350 U U U 3,3-Dichlorobenzidine 91-94-1 710 710 U U 3,3-Nitrophenol 99-09-2 1700 1700 U U 4,6-Dimitro-o-Cresol 534-52-1 1700 1700 U U 4,6-Dimitro-o-Cresol 534-52-1 1700 1700 U U 4,6-Dimitro-o-Cresol 534-52-1 1700 1700 U U 4,6-Dimitro-o-Cresol 59-50-7 350 350 U U 4-Chloro-3-methylphenol 59-50-7 350 350 U U 4-Chloro-3-methylphenol 59-50-7 350 350 U U 4-Chloro-3-methylphenol 106-47-8 350 350 U U 4-Chloro-3-methylphenol 106-44-5 350 350 U U 4-Chloro-3-methylphenol 106-44-5 350 350 U U 4-Chloro-3-methylphenol 106-44-5 350 350 U U 4-Chloro-3-methylphenol 106-47-8 350 350 U U 4-Chloro-3-methylphenol 106-44-5 350 350 U U 4-Chloro-3-methylphenol 106-47-8 350 350 U U 4-Chloro-3-methylphenol 106	ug/kg	SW846 8270 SW846 8270
2,4-Dimethylphenol 105-67-9 350 350 U <t< td=""><td>ug/kg ug/kg ug/kg</td><td>SW846 8270 SW846 8270</td></t<>	ug/kg	SW846 8270 SW846 8270
2,4-Dinitrophenol 51-28-5 1700 1700 U U 2,4-Dinitrotoluene 121-14-2 350 350 U U 2,6-Dinitrotoluene 606-20-2 350 350 U U 2-Chlorophenol 91-58-7 350 350 U U 2-Chlorophenol 95-57-8 350 350 U U 2-Methylnaphthalene 91-57-6 350 350 U U 2-Methylphenol 95-48-7 350 350 U U 2-Nitroaniline 88-74-4 1700 1700 U U 2-Nitrophenol 88-75-5 350 350 U U 3,3'-Dichlorobenzidine 91-94-1 710 710 U U 3-Nitroaniline 99-09-2 1700 1700 U U 4,6-Dinitro-o-Cresol 534-52-1 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-Chloro-3-methylphenol 59-50-7 350 350	ug/kg	SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270
2,4-Dinitrotoluene 121-14-2 350 350 U	ug/kg	SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270
2,6-Dinitrotoluene 606-20-2 350 350 U <t< td=""><td>ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg</td><td>SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270</td></t<>	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270
2-Chloronaphthalene 91-58-7 350 350 U U U 2 2-Chlorophenol 95-57-8 350 350 U U U 2 2-Methylnaphthalene 91-57-6 350 350 U U U 2 2-Methylphenol 95-48-7 350 350 U U U 2 2-Methylphenol 95-48-7 350 350 U U U 2 2-Nitroaniline 88-74-4 1700 1700 U U 2-Nitrophenol 88-75-5 350 350 U U U 3-Nitrophenol 91-94-1 710 710 U U 3-Nitroaniline 99-09-2 1700 1700 U U 3-Nitroaniline 99-09-2 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-Chloro-3-methylphenol 59-50-7 350 350 U U 4-Chlorophenyl-phenylether 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthene 83-32-9 350 350 U U U Acenaphthylene 208-96-8 350 350 U U U Anthracene 120-12-7 350 350 U U U Benzo(a)pyrene 50-32-8 350 350 U U U Benzo(a)pyrene 50-32-8 350 350 U U U	ug/kg	SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270
2-Chlorophenol 95-57-8 350 350 U U U 2-Methylaphthalene 91-57-6 350 350 U U U 2-Methylphenol 95-48-7 350 350 U U U 2-Methylphenol 95-48-7 350 350 U U U 2-Methylphenol 88-74-4 1700 1700 U U 2-Nitroaniline 88-75-5 350 350 U U U 3-Nitroaniline 91-94-1 710 710 U U 3-Nitroaniline 99-09-2 1700 1700 U U 3-Nitroaniline 99-09-2 1700 1700 U U 4-G-Dinitro-o-Cresol 534-52-1 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-Chloro-3-methylphenol 59-50-7 350 350 U U 4-Chlorophenyl-phenylether 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthylene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Acenaphthylene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U U Benzo(a)pyrene 50-32-8 350 350 U U U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270
2-Methylnaphthalene 91-57-6 350 350 U U U 2-Methylphenol 95-48-7 350 350 U U 2-Nitroaniline 88-74-4 1700 1700 U U 2-Nitrophenol 88-75-5 350 350 U U 3,3'-Dichlorobenzidine 91-94-1 710 710 U U 3-Nitroaniline 99-09-2 1700 1700 U U 4,6-Dinitro-o-Cresol 534-52-1 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-chloro-3-methylphenol 59-50-7 350 350 U U 4-Chloroaniline 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Methylphenol 100-02-7 1700 1700 U U 4-Nitroaniline 100-02-7 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8270 SW846 8270 SW846 8270 SW846 8270 SW846 8270
2-Methylphenol 95-48-7 350 350 U U 2-Nitroaniline 88-74-4 1700 1700 U U 2-Nitrophenol 88-75-5 350 350 U U 3,3'-Dichlorobenzidine 91-94-1 710 710 U U 3-Nitroaniline 99-09-2 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-chloro-3-methylphenol 59-50-7 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitrophenol 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthylene 83-32-9 350 350<	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8270 SW846 8270 SW846 8270 SW846 8270
2-Nitroaniline 88-74-4 1700 1700 U U U 2-Nitrophenol 88-75-5 350 350 U U U 3-Nitrophenol 88-75-5 350 350 U U U 3-Nitroaniline 99-09-2 1700 1700 U U U 4-G-Dinitro-o-Cresol 534-52-1 1700 1700 U U U 4-Chloroaniline 106-47-8 350 350 U U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U U 4-Chlorophenyl-phenylether 106-44-5 350 350 U U U 4-Nitroaniline 106-44-5 350 350 U U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U U Acenaphthene 83-32-9 350 350 U U U Acenaphthylene 208-96-8 350 350 U U U Acenaphthylene 208-96-8 350 350 U U U Benzo(a)anthracene 56-55-3 350 350 U U U Benzo(a)pyrene 50-32-8 350 350 U U U	ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8270 SW846 8270 SW846 8270
2-Nitrophenol 88-75-5 350 350 U U 3,3'-Dichlorobenzidine 91-94-1 710 710 U U 3-Nitroaniline 99-09-2 1700 1700 U U 4,6-Dinitro-o-Cresol 534-52-1 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-chloro-3-methylphenol 59-50-7 350 350 U U 4-Chloroaniline 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitroaniline 100-02-7 1700 1700 U U 4-Nitroaniline 208-96-8 350 350 U U 4-Nitroaniline 100-02-7 1700 1700 U U 4-Nitroaniline 208-96-8 350 350	ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8270 SW846 8270
3,3'-Dichlorobenzidine 91-94-1 710 710 U U 3-Nitroaniline 99-09-2 1700 1700 U U 4,6-Dinitro-o-Cresol 534-52-1 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-chloro-3-methylphenol 59-50-7 350 350 U U 4-Chloroaniline 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitroaniline 100-02-7 1700 1700 U U 4-Nitroaniline 100-02-7 1700 1700 U U 4-Nitroaniline 208-96-8 350 350 U U 4-Nitroaniline 120-12-7 1700 1700 U U 4-Nitroaniline 208-96-8 350 <td< td=""><td>ug/kg ug/kg ug/kg</td><td>SW846 8270</td></td<>	ug/kg ug/kg ug/kg	SW846 8270
3-Nitroaniline 99-09-2 1700 1700 U U 4,6-Dinitro-o-Cresol 534-52-1 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-chloro-3-methylphenol 59-50-7 350 350 U U 4-Chloroaniline 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U 4-Nitrophenol 208-96-8 350 350 U U Acenaphthylene 208-96-8 350 350 U U Acenaphthylene 208-96-8 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg ug/kg	
4,6-Dinitro-o-Cresol 534-52-1 1700 1700 U U 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-chloro-3-methylphenol 59-50-7 350 350 U U 4-Chloroaniline 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW 840 82/0
4-Bromophenyl-phenyl Ether 101-55-3 350 350 U U 4-chloro-3-methylphenol 59-50-7 350 350 U U 4-chloro-3-methylphenol 106-47-8 350 350 U U 4-chlorophenyl-phenylether 7005-72-3 350 350 U U 4-chlorophenyl-phenylether 7005-72-3 350 350 U U 4-chlorophenyl-phenylether 106-44-5 350 350 U U 4-chlorophenol 106-44-5 350 350 U U U 4-chlorophenol 100-01-6 1700 1700 U U 4-chlorophenol 100-02-7 1700 1700 U U 4-chlorophenol 100-02-7 1700 1700 U U Acenaphthene 83-32-9 350 350 U U U Acenaphthylene 208-96-8 350 350 U U U Achthracene 120-12-7 350 350 U U U Benzo(a)anthracene 56-55-3 350 350 U U U Benzo(a)pyrene 50-32-8 350 350 U U U		0111046 0070
4-chloro-3-methylphenol 59-50-7 350 350 U U 4-Chloroaniline 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U		SW846 8270
4-Chloroaniline 106-47-8 350 350 U U 4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U 4-Nitrophenol 83-32-9 350 350 U U Acenaphthene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether 7005-72-3 350 350 U U 4-Methylphenol 106-44-5 350 350 U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
4-Methylphenol 106-44-5 350 350 U U U 4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
4-Nitroaniline 100-01-6 1700 1700 U U 4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
4-Nitrophenol 100-02-7 1700 1700 U U Acenaphthene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
Acenaphthene 83-32-9 350 350 U U Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
Acenaphthylene 208-96-8 350 350 U U Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
Anthracene 120-12-7 350 350 U U Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U U	ug/kg	SW846 8270
Benzo(a)anthracene 56-55-3 350 350 U U Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
Benzo(a)pyrene 50-32-8 350 350 U U	ug/kg	SW846 8270
	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane 111-91-1 350 350 U U	ug/kg	SW846 8270
	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate 117-81-7 350 350 U U	ug/kg	SW846 8270
Butyl Benzyl Phthalate 85-68-7 350 350 U U	ug/kg	SW846 8270
Chrysene 218-01-9 350 350 U U	ug/kg	SW846 8270
Di-n-butyl Phthalate 84-74-2 350 350 U U	ug/kg	SW846 8270
Di-n-octyl Phthalate 117-84-0 350 350 U U	ug/kg	SW846 8270
Dibenz(a,h)anthracene 53-70-3 350 U U	ug/kg	SW846 8270
Dibenzofuran 132-64-9 350 350 U U	ug/kg	SW846 8270
Diethyl Phthalate 84-66-2 350 350 U U	ug/kg	SW846 8270
Dimethyl Phthalate 131-11-3 350 350 U U	ug/kg	SW846 8270
Fluoranthene 206-44-0 350 350 U U	ug/kg	SW846 8270
Fluorene 86-73-7 350 350 U U	ug/kg	SW846 8270
Hexachlorobenzene 118-74-1 350 350 U U	J - J	SW846 8270

 Location:
 SB103

 Sample ID:
 09SB108
 Depth:
 24.0-25.0

 COE Sample ID:
 FH009-SB108/03-05-97/24.0-25.0

 Date Collected:
 3/5/97

Hexachloroptunatiene	Method	<u>Units</u>	Data Qual	<u>Lab Qual</u>	Detection Limit	Result	CAS Number	Parameter
Heacachlorocyclopentadiene	SW846 8270	ug/kg	U	U	350	350	87-68-3	Hexachlorobutadiene
Hexachtoroschame	SW846 8270		U	U	350	350	77-47-4	Hexachlorocyclopentadiene
Indemot 1,23-act)pyrene 193-39-5 350 350 U U U ug/kg tosphorone 78-59-1 350 350 U U U ug/kg tosphorone 78-59-1 350 350 U U ug/kg N-Nitrosod-di-p-propylarmine 621-64-7 350 350 U U ug/kg N-Nitrosod-di-p-propylarmine 86-30-6 350 350 U U ug/kg Naphthalene 91-20-3 350 350 U U ug/kg Naphthalene 91-20-3 350 350 U U ug/kg Naphthalene 88-56-5 1700 1700 U ug/kg Pentachlorophenol 87-86-5 1700 1700 U ug/kg Pentachlorophenol 88-56-3 1700 1700 U ug/kg Phenol 108-95-2 350 350 U U ug/kg Phenol 108-95-2 350 350 U U ug/kg Pyrdine 110-86-1 350 350 U U ug/kg 11,1,2-Tetrachlorochtane 71-55-6 5 5 U U ug/kg 11,1,2-Tetrachlorochtane 71-55-6 5 5 U U ug/kg 11,1,2-Tetrachlorochtane 71-55-6 5 5 U U ug/kg 11,1,2-Tetrachlorochtane 79-90-5 5 5 U U ug/kg 11,1,2-Tetrachlorochtane 79-90-5 5 5 U U ug/kg 11,1,2-Tetrachlorochtane 75-34-3 5 5 U U ug/kg 11,1,2-Tetrachlorochtane 75-34-3 5 5 U U ug/kg 11,1,2-Tetrachlorochtane 75-34-4 5 5 U U ug/kg 11,1,2-Tetrachlorochtane 10-86-1 5 5 U U ug/kg 11,1,2-Tetrachloro	SW846 8270		U	U	350	350	67-72-1	
Sophorone	SW846 8270		U	U	350			
N-Nitrood-in-propylamine	SW846 8270		Ü	U				
N-Nitrosodiphenylamine 86-30-6 350 350 U U u g/kg Nitroberzene 98-95-3 350 350 U U u g/kg Phematherophenol 87-86-5 1700 1700 U u g/kg Phematherene 85-01-8 350 350 U U u g/kg Phematherene 85-01-8 350 350 U U u g/kg Phematherene 129-00-0 350 350 U U u g/kg Pyrene 129-00-0 350 350 U U u g/kg Pyrene 129-00-0 350 350 U U u g/kg VOLATILE ORGANICS 1,1,1,2-Tierhorocethane 1,1,1-Tierhorocethane 1,1,1-Tierhorocethane 1,1,2-Tierhorocethane 1,2,3-Tierhorocethane 1,2,	SW846 8270		-					
Naphthalene	SW846 8270							
Nirobenzene	SW846 8270		_					
Pentachlorophenol 87-86-5 1700 1700 U U Ug/kg Phenon 180-95-2 350 350 U U Ug/kg Phenol 108-95-2 350 350 U U Ug/kg Phenol 108-95-2 350 350 U U Ug/kg Phenol 110-86-1 350 350 U U Ug/kg Phenol 110-86-1 350 350 U U Ug/kg Pyridine 110-86-1 350 350 U U Ug/kg U U Ug/kg Pyridine 171-55-6 5 5 U U Ug/kg U U Ug/kg 11,12-17-chlorocthane 71-55-6 5 5 U U Ug/kg 11,12-17-chlorocthane 73-34-5 5 5 U U Ug/kg 11,12-17-chlorocthane 73-34-3 5 5 U U Ug/kg 11,12-17-chlorocthane 87-61-6 5 5 U U Ug/kg 12,2-17-chlorocthane 87-61-6 5 5 U U Ug/kg 12,2-17-chlorocthane 96-18-4 5 5 U U Ug/kg 12,2-17-chlorocthane 96-18-4 5 5 U U Ug/kg 12,2-17-chlorocthane 16-93-4 5 5 U U Ug/kg 12,2-17-chlorocthane 16-93-4 5 5 U U Ug/kg 12,2-17-chlorocthane 16-93-4 5 5 U U Ug/kg 12,2-17-chlorocthane 107-66-2 5 5 U U Ug/kg 12,2-17-chlorocthane 107-66-2 5 5 U U Ug/kg 12,2-17-chlorocthane 107-66-2 5 5 U U Ug/kg 12,2-17-chlorocthane 108-67-8 5 U U Ug/kg 12,2	SW846 8270							
Phenanthrene	SW846 8270							
Phenol 108-95-2 350 350 U U ug/kg Pyridine 129-00-0 350 350 U U ug/kg Pyridine 110-86-1 350 350 U U ug/kg U U ug/k	SW846 8270							•
Pyrene	SW846 8270							
VOLATILE ORGANICS	SW846 8270							
VOLATILE ORGANICS								•
1,1,1,2-Tetrachloroethane	SW846 8270	ug/kg	U	U	330	330	110-86-1	Pyridine
1.1.1-Trichloroethane								VOLATILE ORGANICS
11.2.2-Tetrachloroethane	SW846 8260	ug/kg					630-20-6	1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane	SW846 8260	ug/kg	U	U	5	5	71-55-6	1,1,1-Trichloroethane
1.1-Dichloroethane	SW846 8260	ug/kg	U	U	5	5	79-34-5	1,1,2,2-Tetrachloroethane
1,1-Dichloroethene 75-35-4 5 5 U U ug/kg 1,1-Dichloropropene 563-58-6 5 5 U U ug/kg 1,2,3-Trichloropropane 96-18-4 5 5 U U ug/kg 1,2,3-Trichloropropane 96-18-4 5 5 U U ug/kg 1,2,4-Trichlorobenzene 120-82-1 5 5 U U ug/kg 1,2,4-Trichlorobenzene 195-63-6 5 5 U U ug/kg 1,2-dichromo-3-chloropropane 96-12-8 5 5 U U ug/kg 1,2-Dichlorobenzene 95-50-1 5 5 U U ug/kg 1,2-Dichloropropane 78-87-5 5 5 U U ug/kg 1,2-Dichloropropane 78-87-5 5 5 U U ug/kg 1,2-Dichloropropane 156-60-5 5 5 U U ug/kg 1,2-Dichloropropane 156-60-5 5 5 U U ug/kg <t< td=""><td>SW846 8260</td><td>ug/kg</td><td>U</td><td>U</td><td>5</td><td>5</td><td>79-00-5</td><td>1,1,2-Trichloroethane</td></t<>	SW846 8260	ug/kg	U	U	5	5	79-00-5	1,1,2-Trichloroethane
1.1-Dichloroethene 75-35-4 5 5 U U ug/kg 1.1-Dichloropropene 563-58-6 5 5 U U ug/kg 1.2,3-Trichlorobenzene 87-61-6 5 5 U U ug/kg 1.2,3-Trichloropropane 96-18-4 5 5 U U ug/kg 1.2,4-Trichlorobenzene 196-83-6 5 5 U U ug/kg 1.2-dibromod-schloropropane 95-63-6 5 5 U U ug/kg 1.2-dibromo-3-chloropropane 96-12-8 5 5 U U ug/kg 1.2-Dichlorobenzene 106-93-4 5 5 U U ug/kg 1.2-Dichlorobenzene 95-50-1 5 5 U U ug/kg 1.2-Dichlorobenzene 156-60-5 5 5 U U ug/kg 1.2-Dichlorobenzene 156-60-5 5 5 U U ug/kg 1.2-Dichlorobenzene 156-60-5 5 5 U U ug/kg	SW846 8260	ug/kg	U	U	5	5	75-34-3	1.1-Dichloroethane
1,1-Dichloropropene 563-58-6 5 U U ug/kg 1,2,3-Trichlorobenzene 87-61-6 5 5 U U ug/kg 1,2,3-Trichloropropane 96-18-4 5 5 U U ug/kg 1,2,4-Trinchlorobenzene 120-82-1 5 5 U U ug/kg 1,2-4-Trinchlybenzene 95-63-6 5 5 U U ug/kg 1,2-4-timethylbenzene 156-59-2 5 5 U U ug/kg 1,2-Dichlorobenzene 96-12-8 5 5 U U ug/kg 1,2-Dichlorobenzene 95-50-1 5 5 U U ug/kg 1,2-Dichlorobenzene 107-06-2 5 5 U U ug/kg 1,2-Dichlorobenzene 18-60-5 5 5 U U ug/kg 1,2-Dichlorobenzene 18-60-5 5 5 U U ug/kg 1,2-Dichlorobenzene 198-67-8 5 5 U U ug/kg 1,2-Iramchylbenzene </td <td>SW846 8260</td> <td></td> <td>U</td> <td>U</td> <td>5</td> <td>5</td> <td>75-35-4</td> <td></td>	SW846 8260		U	U	5	5	75-35-4	
1,2,3-Trichlorobenzene 87-61-6 5 5 U U ug/kg 1,2,3-Trichlorobenzene 120-82-1 5 5 U U ug/kg 1,2,4-Trichlorobenzene 95-63-6 5 5 U U ug/kg 1,2-4-tirinethylbenzene 95-63-6 5 5 U U ug/kg 1,2-dibromedene 165-59-2 5 5 U U ug/kg 1,2-dibromo-3-chloropropane 106-93-4 5 5 U U ug/kg 1,2-Dichlorobenzene 106-93-4 5 5 U U ug/kg 1,2-Dichlorobenzene 107-06-2 5 5 U U ug/kg 1,2-Dichloroptopane 18-60-5 5 5 U U ug/kg 1,2-Dichloroptopane 18-60-5 5 5 U U ug/kg 1,3-Sichloroptopane 198-67-8 5 5 U U ug/kg 1,3-Dichlorobenzene 194-60-7 5 5 U U ug/kg <td< td=""><td>SW846 8260</td><td></td><td>U</td><td>U</td><td>5</td><td>5</td><td>563-58-6</td><td>1.1-Dichloropropene</td></td<>	SW846 8260		U	U	5	5	563-58-6	1.1-Dichloropropene
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Dichlorodifluoromethane 75-71-8 5 5 U U ug/kg Ethylbenzene 100-41-4 5 5 U U ug/kg	SW846 8260							Dibromochloromethane
Ethylbenzene 100-41-4 5 5 U U ug/kg	SW846 8260	ug/kg	U	U		5	74-95-3	Dibromomethane
Ethylbenzene 100-41-4 5 5 U U ug/kg	SW846 8260	ug/kg	U	U	5	5	75-71-8	Dichlorodifluoromethane
	SW846 8260		U	U	5	5	100-41-4	
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Isopropyl Benzene 98-82-8 5 5 U U ug/kg								
m,p-Xylene 13-302-07 5 5 U U ug/kg								
Methylene Chloride 75-09-2 6 5 ug/kg			C	O				
n-Butylbenzene 104-51-8 5 U U ug/kg			T T	T T				

BB108 **Depth:** 24.0-25.0 FH009-SB108/03-05-97/24.0-25.0 3/5/97 09SB108 Sample ID: COE Sample ID:
Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB104

Sample ID: 0
COE Sample ID:
Date Collected: B113 **Depth:** 0.0-1.0 FH009-SB113/03-06-97/0.0-1.0 09SB113

3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	<u>Lab Qual</u>	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	4.2	0.4			mg/kg	SW846 6010
Barium	7440-39-3	45.7	0.08	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	11.5	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	8.7	0.23			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.4	1.4	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	420	420	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	420	420	Ū	Ü	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	420	420	Ū	Ū	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	420	420	U	U	ug/kg	SW846 8270
1.4-Dichlorobenzene	106-46-7	420	420	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	420	420	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	420	420	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	420	420	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	420	420	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	420	420	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	420	420	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	420	420	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	420	420	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	420	420	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	850	850	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	420	420	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	420	420	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	420	420	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	420	420	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	420	420	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270

SB113 **Depth:** 0.0-1.0 FH009-SB113/03-06-97/0.0-1.0 3/6/97 Sample ID: 09SB113 COE Sample ID:
Date Collected:

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthene	83-32-9	420	420	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	420	420	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	420	420	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	420	420	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	420	420	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	420	420	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	420	420	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	420	420	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	420 420	420 420	U U	U U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	420 420	420 420	U	Ŭ	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	420 160	420 420	J	J	ug/kg	SW846 8270 SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7 85-68-7	420	420	U	U	ug/kg ug/kg	SW846 8270
Butyl Benzyl Phthalate	218-01-9	420	420	U	U	ug/kg ug/kg	SW846 8270
Chrysene Di-n-butyl Phthalate	84-74-2	420	420	Ū	U	ug/kg ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	420	420	Ü	Ŭ	ug/kg ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	420	420	U	U	ug/kg ug/kg	SW846 8270
Dibenzofuran	132-64-9	420	420	Ü	Ü	ug/kg ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	420	420	Ü	Ü	ug/kg ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	420	420	Ŭ	Ü	ug/kg	SW846 8270
Fluoranthene	206-44-0	420	420	Ŭ	Ŭ	ug/kg	SW846 8270
Fluorene	86-73-7	420	420	Ŭ	Ŭ	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	420	420	Ū	Ū	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	420	420	Ū	Ū	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	420	420	U	Ū	ug/kg	SW846 8270
Hexachloroethane	67-72-1	420	420	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	420	420	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	420	420	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	420	420	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	420	420	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	420	420	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	420	420	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	420	420	U	U	ug/kg	SW846 8270
Phenol	108-95-2	420	420	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	420	420	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	420	420	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260

SB113 **Depth:** 0.0-1.0 FH009-SB113/03-06-97/0.0-1.0 3/6/97 Sample ID: 09SB113 COE Sample ID:

Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	63	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	9 9-87- 6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB104

114 **Depth:** 15.5-16.0 FH009-SB114/03-06-97/15.5-16.0 Sample ID: 09SB114 COE Sample ID:

Date Collected:

3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	8.4	0.37			mg/kg	SW846 6010
Barium	7440-39-3	16.3	0.07	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	6	0.08	E	J	mg/kg	SW846 6010
Lead	7439-92-1	11.5	0.22			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.3	1.3	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	390	390	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U	U	ug/kg	SW846 8270

 Sample ID:
 09SB114

 COE Sample ID:
 FH00

 Date Collected:
 3/6/97

SB114 **Depth:** 15.5-16.0 FH009-SB114/03-06-97/15.5-16.0 3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	390	390	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	390	390	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	U U	U U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900 390	U	U	ug/kg	SW846 8270
2-Nitrophenol 3,3'-Dichlorobenzidine	88-75-5 91-94-1	390 780	780	U	U	ug/kg ug/kg	SW846 8270 SW846 8270
3-Nitroaniline	99-09-2	1900	1900	Ü	U	ug/kg ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	Ü	Ü	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	Ü	Ü	ug/kg ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	Ü	Ŭ	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	Ū	Ū	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	390	390	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	390	390	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	390	390	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	390	390	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	390	390	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390 390	390 390	U	U U	ug/kg	SW846 8270 SW846 8270
Bis(2-chloroethyl)ether	111-44-4 117-81-7	390 390	390	U	U	ug/kg ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate Butyl Benzyl Phthalate	85-68-7	390	390	U	U	ug/kg ug/kg	SW846 8270
Chrysene	218-01-9	390	390	Ü	U	ug/kg ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	Ü	Ū	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	390	390	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	390	390	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U	u, U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	390	390	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	U	U	ug/kg	SW846 8270
Hexachloroethane	67 - 72-1	390	390	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	390	390	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390 390	U U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	390 390	390	U	U U	ug/kg	SW846 8270 SW846 8270
Nitrobenzene Pentachlorophenol	98-95-3 87-86-5	1900	1900	U	U	ug/kg ug/kg	SW846 8270 SW846 8270
Phenanthrene	85-01-8	390	390	U	U	ug/kg ug/kg	SW846 8270
Phenol	108-95-2	390	390	U	U	ug/kg ug/kg	SW846 8270
Pyrene	129-00-0	390	390	U	U	ug/kg ug/kg	SW846 8270
Pyridine	110-86-1	390	390	Ŭ	U	ug/kg	SW846 8270
- y - 144444	1.0 00 1	270	5,0	Č	J	- -	5 .5 02/5
VOLATILE ODCANICS							
VOLATILE ORGANICS	620.20.6	-	<i>C</i>	T T	T T	110/100	0111046 0060
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U U	U U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260

Location: SB104 Sample ID: 098 SB114 **Depth:** 15.5-16.0 FH009-SB114/03-06-97/15.5-16.0 3/6/97 09SB114 COE Sample ID:
Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6		U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6 6	U U	U	ug/kg	SW846 8260 SW846 8260
1,4-Dichlorobenzene	106-46-7	6 6	6	U	U	ug/kg	
2,2-Dichloropropane	594-20-7 78-93-3	6	6	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
2-Butanone	/8-93-3 95-49-8	6	6	U	U	ug/kg ug/kg	SW846 8260
2-Chlorotoluene	591-78-6	6	6	U	U	ug/kg ug/kg	SW846 8260
2-Hexanone	106-43-4	6	6	U	U	ug/kg ug/kg	SW846 8260
4-Chlorotoluene	108-10-1	6	6	U	U	ug/kg ug/kg	SW846 8260
4-Methyl-2-pentanone Acetone	67-64-1	24	6	U	O	ug/kg ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
Bromoform	75-25-2	6	6	Ŭ	Ü	ug/kg	SW846 8260
Bromomethane	74 -8 3-9	6	6	Ŭ	Ü	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	Ü	Ŭ	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	Ū	Ū	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	Ū	Ū	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	Ū	Ū	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

 Location:
 SB104

 Sample ID:
 09SB115
 Depth:
 19.0-20.0

 COE Sample ID:
 FH009-SB115/03-06-97/19.0-20.0

 Date Collected:
 3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	6.8	0.33			mg/kg	SW846 6010
Barium	7440-39-3	3	0.06	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.05	0.05	Ū	U	mg/kg	SW846 6010
Chromium	7440-47-3	2.1	0.07	E	J	mg/kg	SW846 6010
Lead	7439-92-1	4.7	0.19			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.2	1.2	UE	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.18	0.18	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350		U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5 91-94-1	350 700	350 700	U	U U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine 3-Nitroaniline	91-94-1 99-09-2	1700	1700	U	Ŭ	ug/kg ug/kg	SW846 8270 SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	Ŭ	Ŭ	ug/kg ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	Ü	U	ug/kg ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	U	ug/kg ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	Ü	Ü	ug/kg ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	Ŭ	Ü	ug/kg ug/kg	SW846 8270
4-Nitroaniline	100-44-5	1700	1700	U	Ü	ug/kg ug/kg	SW846 8270
4-Nitrophenol	100-01-0	1700	1700	U	Ü	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	Ü	Ü	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	Ŭ	Ŭ	ug/kg	SW846 8270
Anthracene	120-12-7	350	350	Ŭ	Ü	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	Ū	Ū	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	Ū	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	U	Ü	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	U	ug/kg	SW846 8270

Location: SB104
Sample ID: 095
COE Sample ID:
Date Collected: B115 **Depth:** 19.0-20.0 FH009-SB115/03-06-97/19.0-20.0 09SB115

3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	350	350	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	350	350	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U U	U U	ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350 350	U	Ü	ug/kg	SW846 8270
Phenol	108-95-2 129-00-0	350 350	350 350	Ü	Ü	ug/kg ug/kg	SW846 8270 SW846 8270
Pyrene Pyridine	110-86-1	350	350	U	Ü	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5 5	U U	U U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5 5	5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
1,3,5-trimethylbenzene	108-67-8	5 5	5	U	U	ug/kg ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1 142-28-9	5	5	U	U	ug/kg ug/kg	SW846 8260
1,3-Dichloropropane	106-46-7	5	5	U	U	ug/kg ug/kg	SW846 8260
1,4-Dichlorobenzene 2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	Ŭ	Ü	ug/kg ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	Ü	Ŭ	ug/kg	SW846 8260
Acetone	67-64-1	46	5	•		ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	5	U U	U	ug/kg	SW846 8260 SW846 8260
n-Butylbenzene	104-51-8	5	5	T 7	U	ug/kg	0337046 0060

SB115 **Depth:** 19.0-20.0 FH009-SB115/03-06-97/19.0-20.0 3/6/97 09SB115 Sample ID: COE Sample ID:
Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB105

Sample ID: 0'COE Sample ID:
Date Collected: B104 **Depth:** 0.0-1.0 FH009-SB104/01-09-97/0.0-1.0 09SB104

1/9/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	3.7	0.37			mg/kg	SW846 6010
Barium	7440-39-3	7.8	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.15	0.04	В		mg/kg	SW846 6010
Chromium	7440-47-3	4.3	0.09			mg/kg	SW846 6010
Lead	7439-92-1	3.2	0.16			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.31	0.31	UW	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	370	370	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	370	370	Ü		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	370	370	Ū		ug/kg	SW846 8270
1.3-Dichlorobenzene	541-73-1	370	370	Ü		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	370	370	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	370	370	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	370	370	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	370	370	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	370	370	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	370	370	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	370	370	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	370	370	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	370	370	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	370	370	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	370	370	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1800	1800	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	370	370	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	740	740	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	370	370	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	370	370	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	370	370	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	370	370	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	370	370	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	U		ug/kg	SW846 8270

SB104 **Depth:** 0.0-1.0 FH009-SB104/01-09-97/0.0-1.0 1/9/97
 Sample ID:
 09SB104

 COE Sample ID:
 FH0

 Date Collected:
 1/9/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthene	83-32-9	370	370	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	370	370	U		ug/kg	SW846 8270
Anthracene	120-12-7	370	370	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	370	370	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	370	370	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	370	370	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	370	370	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	370	370	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	370	370	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	370 370	370	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	370	370	U		ug/kg	SW846 8270
Chrysene	218-01-9	370	370	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	370	370	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	370	370	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	370	370	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	370	370	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	370	370	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	370	370	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	370	370	U		ug/kg	SW846 8270
Fluorene	86-73-7	370	370	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	370	370	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	370	370	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	370	370	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	370	370	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	370	370	U		ug/kg	SW846 8270
Isophorone	78-59-1	370	370	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	370	370	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	370	370	U		ug/kg	SW846 8270
Naphthalene	91-20-3	370	370	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	370	370	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	370	370	U		ug/kg	SW846 8270
Phenol	108-95-2	370	370	U		ug/kg	SW846 8270
Pyrene	129-00-0	370	370	U		ug/kg	SW846 8270
Pyridine	110-86-1	370	370	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-1 cu acinoi oculane							
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
	79-00-5 75-34-3	6 6	6 6	U U	U	ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane						~ ~	
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene	75-34-3 75-35-4	6 6	6 6	U U	U U	ug/kg ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene	75-34-3 75-35-4 563-58-6	6 6 6	6 6 6	U U U	U U U	ug/kg ug/kg ug/kg	SW846 8260 SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	75-34-3 75-35-4 563-58-6 87-61-6	6 6 6	6 6 6	U U U U	U U U U	ug/kg ug/kg ug/kg ug/kg	SW846 8260 SW846 8260 SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4	6 6 6 6	6 6 6 6	U U U U U	U U U U	ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6	6 6 6 6 6	6 6 6 6	U U U U U	U U U U U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-cis-Dichloroethene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2	6 6 6 6 6 6	6 6 6 6 6	U U U U U U	U U U U U U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-cis-Dichloroethene 1,2-dibromo-3-chloropropane	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8	6 6 6 6 6	6 6 6 6 6 6	U U U U U U U	U U U U U U U	ug/kg	SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-cis-Dichloroethene 1,2-dibromo-3-chloropropane 1,2-Dibromoethane	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4	6 6 6 6 6 6 6	6 6 6 6 6 6 6	U U U U U U U U	U U U U U U U	ug/kg	SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-cis-Dichloroethene 1,2-dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8	6 6 6 6 6 6 6	6 6 6 6 6 6 6	U U U U U U U U	U U U U U U U U	ug/kg	SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-trichlorobenzene 1,2,4-trimethylbenzene 1,2-cis-Dichloroethene 1,2-dibromo-3-chloropropane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4 95-50-1	6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6	U U U U U U U U U	U U U U U U U U	ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-cis-Dichloroethene 1,2-dibromo-3-chloropropane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloropropane	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4 95-50-1 107-06-2 78-87-5	6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6	บ บ บ บ บ บ บ บ บ	U U U U U U U U U	ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-dibromo-3-chloropropane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4 95-50-1 107-06-2 78-87-5 156-60-5	6 6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6 6	บ บ บ บ บ บ บ บ บ บ บ บ บ บ บ บ บ บ บ	U U U U U U U U U U	ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-dibromo-3-chloropropane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Trans-Dichloroethene 1,3,5-trimethylbenzene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4 95-50-1 107-06-2 78-87-5 156-60-5 108-67-8	6 6 6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6 6 6	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	U U U U U U U U U U	ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-dibromo-3-chloropropane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,2-Trians-Dichloroethene 1,3-5-trimethylbenzene 1,3,5-trimethylbenzene 1,3-Dichlorobenzene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4 95-50-1 107-06-2 78-87-5 156-60-5 108-67-8 541-73-1	6 6 6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6 6 6	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	U U U U U U U U U U	ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-dibromo-3-chloropropane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloropropane 1,2-Dichlorobenzene 1,3-Dichloropropane 1,2-Trans-Dichloroethene 1,3-5-trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4 95-50-1 107-06-2 78-87-5 156-60-5 108-67-8 541-73-1 142-28-9	6 6 6 6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6 6 6 6	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloropropene 1,2,3-Trichloropropene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-cis-Dichloroethene 1,2-dibromo-3-chloropropane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,2-Trians-Dichloroethene 1,3,5-trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4 95-50-1 107-06-2 78-87-5 156-60-5 108-67-8 541-73-1 142-28-9 106-46-7	6 6 6 6 6 6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6 6 6 6	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	U U U U U U U U U U U U U U U U U U U	ug/kg	SW846 8260 SW846 8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene 1,2-dibromo-3-chloropropane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloropropane 1,2-Dichlorobenzene 1,3-Dichloropropane 1,2-Trans-Dichloroethene 1,3-5-trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene	75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 156-59-2 96-12-8 106-93-4 95-50-1 107-06-2 78-87-5 156-60-5 108-67-8 541-73-1 142-28-9	6 6 6 6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6 6 6 6	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	ug/kg	SW846 8260 SW846 8260

Location: SB105 Sample ID: 09SB104 COE Sample ID: FH0 Date Collected: 1/9/97 PSB104 **Depth:** 0.0-1.0 FH009-SB104/01-09-97/0.0-1.0 1/9/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	J	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	17	6		U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260
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Location: SB105
Sample ID: 098
COE Sample ID:
Date Collected: B105 **Depth:** 10.5-11.0 FH009-SB105/01-09-97/10.5-11.0 09SB105

1/9/97

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	2.5	0.37			mg/kg	SW846 6010
Barium	7440-39-3	15	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.14	0.04	В		mg/kg	SW846 6010
Chromium	7440-47-3	3.6	0.09			mg/kg	SW846 6010
Lead	7439-92-1	2.2	0.16			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	1.6	1.6	UW	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	370	370	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	370	370	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	370	370	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	370	370	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	370	370	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	370	370	U		ug/kg	SW846 8270

9SB105 **Depth:** 10.5-11.0 FH009-SB105/01-09-97/10.5-11.0 1/9/97
 Sample ID:
 09SB105

 COE Sample ID:
 FH0

 Date Collected:
 1/9/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	370	370	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	370	370	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	370	370	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	370	370	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	370	370	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	370	370	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	370	370	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	370	370 370	U U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	370	370 1800	U		ug/kg	SW846 8270 SW846 8270
2-Nitroaniline	88-74-4	1800 370	370	U		ug/kg ug/kg	SW846 8270 SW846 8270
2-Nitrophenol	88-75-5 91-94-1	740	740	U		ug/kg ug/kg	SW846 8270
3,3'-Dichlorobenzidine	99-09-2	1800	1800	U		ug/kg ug/kg	SW846 8270
3-Nitroaniline	534-52-1	1800	1800	Ü		ug/kg ug/kg	SW846 8270
4,6-Dinitro-o-Cresol 4-Bromophenyl-phenyl Ether	101-55-3	370	370	Ŭ		ug/kg ug/kg	SW846 8270
	59-50-7	370	370	Ü		ug/kg ug/kg	SW846 8270
4-chloro-3-methylphenol 4-Chloroaniline	106-47-8	370	370	Ü		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	370	370	Ŭ		ug/kg	SW846 8270
4-Methylphenol	106-44-5	370	370	Ü		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	Ŭ		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	Ū		ug/kg	SW846 8270
Acenaphthene	83-32-9	370	370	Ū		ug/kg	SW846 8270
Acenaphthylene	208-96-8	370	370	U		ug/kg	SW846 8270
Anthracene	120-12-7	370	370	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	370	370	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	370	370	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	370	370	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	370	370	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	370	370	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	370	370	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	370	370	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	370	370	U		ug/kg	SW846 8270
Chrysene	218-01-9	370	370	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	370	370	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	370	370	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	370	370	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	370	370	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	370	370	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	370	370	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	370	370	U		ug/kg	SW846 8270
Fluorene	86-73-7	370	370	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	370	370	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	370	370	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	370	370 370	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	370	370	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	370	370 370	U		ug/kg	SW846 8270
Isophorone	78-59-1	370	370 370	U U		ug/kg	SW846 8270 SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	370 370	370 370	Ü		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6 91-20-3	370 370	370 370	U		ug/kg ug/kg	SW846 8270
Naphthalene		370 370	370 370	Ü		ug/kg ug/kg	SW846 8270
Nitrobenzene Pentachlorophenol	98-95-3 87-86-5	1800	1800	U		ug/kg ug/kg	SW846 8270
•	87-86-3 85-01-8	370	370	U		ug/kg ug/kg	SW846 8270
Phenanthrene Phenol	108-95-2	370	370 370	Ü		ug/kg ug/kg	SW846 8270
Pyrene	129-00-0	370	370 370	U		ug/kg ug/kg	SW846 8270
Pyridine	110-86-1	370	370	Ŭ		ug/kg	SW846 8270
•							
VOLATILE ORGANICS	(20.20.4	,		* *	* *		CW946 9260
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260

 Location:
 SB105

 Sample ID:
 09SB105
 Depth:
 10.5-11.0

 COE Sample ID:
 FH009-SB105/01-09-97/10.5-11.0

 Date Collected:
 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	3	6	J	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6 6	U	U U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	•	U	_	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

 Location:
 SB105

 Sample ID:
 FHGW103
 Depth:
 NA

 COE Sample ID:
 FH009-GW103/01-10-97

 Date Collected:
 1/10/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	1.4	0.3	В		ug/l	SW846 6010
Barium	7440-39-3	15.8	2.5			ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.5	U	U	ug/l	SW846 6010
Chromium	7440-47-3	0.8	0.8	U	U	ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U	U	ug/l	SW846 6010
Mercury Selenium	7439-97-6 7782-49-2	0.1 2.8	0.1 2.8	U UW	U U J	ug/l ug/l	SW846 6010 SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1 95-50-1	10 10	10 10	U U	U U	ug/l	SW846 8270 SW846 8270
1,2-Dichlorobenzene 1.3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	Ü	Ü	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	Ŭ	Ŭ	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10 10	10 10	U U	U U	ug/l	SW846 8270
2-Chlorophenol	95-57-8 91-57-6	10	10	U	U	ug/l ug/l	SW846 8270 SW846 8270
2-Methylnaphthalene 2-Methylphenol	95-48-7	10	10	Ŭ	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	Ŭ	Ü	ug/l ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	Ū	Ū	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10 10	10 10	U U	U U	ug/l	SW846 8270
4-Methylphenol 4-Nitroaniline	106-44-5 100-01-6	50	50	U	U	ug/l ug/l	SW846 8270 SW846 8270
4-Nitrophenol	100-01-0	50	50	Ŭ	Ü	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	Ŭ	Ŭ	ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U	U	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane Bis(2-chloroethyt)ether	111-91-1 111-44-4	10 10	10 10	U U	U	ug/l ug/l	SW846 8270 SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U	Ü	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	Ŭ	Ŭ	ug/l	SW846 8270
Chrysene	218-01-9	10	10	Ŭ	Ŭ	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	Ü	Ü	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	Ū	Ü	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270

 Location:
 SB105

 Sample ID:
 FHGW103
 Depth:
 NA

 COE Sample ID:
 FH009-GW103/01-10-97

 Date Collected:
 1/10/97

Parameter Parame	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	Ü	Ū	ug/l	SW846 8270
(sophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	Ü	Ū	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	Ŭ	Ŭ	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	Ŭ	Ŭ	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	Ü	Ŭ	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	Ŭ	Ŭ	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	Ŭ	Ü	ug/l	SW846 8270
Phenol	108-95-2	10	10	Ü	Ŭ	ug/l	SW846 8270
Pyrene	129-00-0	10	10	Ü	Ü	ug/l	SW846 8270
Pyridine	110-86-1	50	50	Ŭ	Ü	ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	Ü	Ü	ug/l ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	Ŭ	ug/l ug/l	SW846 8260
1,1,2-Trichloroethane	79-34-3 79-00-5	5	5	U	U	ug/l ug/l	SW846 8260
• •	75-34-3	5	5	Ü	Ŭ		SW846 8260
1,1-Dichloroethane		5 5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5 5	5			ug/l	
1,1-Dichloropropene	563-58-6		5	U	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5		U	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	. 5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	Ū	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	Ü	Ū	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	Ŭ	Ü	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	Ŭ	Ŭ	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	Ŭ	Ü	ug/l ug/l	SW846 8260
	108-10-1	5	5	U	U	-	SW846 8260
4-Methyl-2-pentanone		<i>5</i>	5	U	U	ug/l	
Acetone	67-64-1	-	-	_		ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	Ü	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	Ŭ	Ŭ	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	Ŭ	Ü	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	Ü	Ü	ug/l	SW846 8260
	13-302-07	4	5	J	J	ug/l ug/l	SW846 8260
m n_Yulana							
m,p-Xylene Methylene Chloride	75-09-2	24	5	3	U	ug/l	SW846 8260

Location: SB105
Sample ID: FH
COE Sample ID:
Date Collected: GW103 **Depth:** NA FH009-GW103/01-10-97 1/10/97 FHGW103

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8260

 Location:
 NA

 Sample ID:
 ER018
 Depth:
 NA

 COE Sample ID:
 FH009-ER018/01-09-97
 Date Collected:
 1/9/97

,							
Parameter	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method	
INORGANICS							
Arsenic	7440-38-2	0.3	0.3	U	ug/l	SW846 6010	
Barium	7440-39-3	2.5	2.5	U	ug/l	SW846 6010	
Cadmium	7440-43-9	0.5	0.5	U	ug/l	SW846 6010	
Chromium	7440-47-3	0.8	0.8	U	ug/l	SW846 6010	
Lead	7439-92-1	1.7	1.7	U	ug/l	SW846 6010	
Mercury	7439-97-6	0.1	0.1	U	ug/l	SW846 6010	
Selenium	7782-49-2	4.3	2.8	В	ug/l	SW846 6010	
Silver	7440-22-4	1.2	1.2	U	ug/l	SW846 6010	
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	10	10	U	ug/l	SW846 8270	
1.2.4-Trichlorobenzene	120-82-1	10	10	Ü	ug/l	SW846 8270	
1.2-Dichlorobenzene	95-50-1	10	10	U	ug/l	SW846 8270	
1.3-Dichlorobenzene	541-73-1	10	10	Ū	ug/l	SW846 8270	
1,4-Dichlorobenzene	106-46-7	10	10	Ū	ug/l	SW846 8270	
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	Ü	ug/l	SW846 8270	
2,4,5-Trichlorophenol	95-95-4	50	50	Ü	ug/l	SW846 8270	
2,4,6-Trichlorophenol	88-06-2	10	10	Ü	ug/l	SW846 8270	
2,4-Dichlorophenol	120-83-2	10	10	Ü	ug/l	SW846 8270	
2,4-Dimethylphenol	105-67-9	10	10	Ü	ug/l	SW846 8270	
2,4-Dinitrophenol	51-28-5	50	50	Ŭ	ug/l	SW846 8270	
2.4-Dinitrotoluene	121-14-2	10	10	Ü	ug/l	SW846 8270	
2.6-Dinitrotoluene	606-20-2	10	10	Ü	ug/l	SW846 8270	
2-Chloronaphthalene	91-58-7	10	10	Ŭ	ug/l	SW846 8270	
2-Chlorophenol	95-57-8	10	10	Ŭ	ug/l	SW846 8270	
2-Methylnaphthalene	91-57-6	10	10	Ü	ug/l ug/l	SW846 8270	
2-Methylphenol	95-48-7	10	10	Ü	ug/l ug/l	SW846 8270	
2-Nitroaniline	88-74-4	50	50	U	ug/l ug/l	SW846 8270	
2-Nitrophenol	88-75-5	10	10	U	ug/l ug/l	SW846 8270	
3.3'-Dichlorobenzidine	91-94-1	20	20	U	ug/l ug/l	SW846 8270	
3-Nitroaniline	99-09-2	50 50	50	U	ug/l ug/l	SW846 8270	
	534-52-1	50 50	50	U	ug/l ug/l	SW846 8270	
4,6-Dinitro-o-Cresol		30 10	30 10	U	_		
4-Bromophenyl-phenyl Ether	101-55-3		10	-	ug/l	SW846 8270	
4-chloro-3-methylphenol	59-50-7	10		U	ug/l	SW846 8270	
4-Chloroaniline	106-47-8	10	10	U	ug/l	SW846 8270	
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	ug/l	SW846 8270	
4-Methylphenol	106-44-5	10	10	U	ug/l	SW846 8270	
4-Nitroaniline	100-01-6	50	50	U	ug/l	SW846 8270	
4-Nitrophenol	100-02-7	50	50	U	ug/l	SW846 8270	

 Location:
 NA

 Sample ID:
 ER018
 Depth:
 NA

 COE Sample ID:
 FH009-ER018/01-09-97
 Date Collected:
 1/9/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	<u>Method</u>
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3 50-33-8	10	10 10	U U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8 205-99-2	10 10	10	Ŭ		ug/l ug/l	SW846 8270 SW846 8270
Benzo(b)fluoranthene Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/i ug/i	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	Ŭ		ug/l	SW846 8270
Benzoic Acid	65-85-0	6	50	J		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7 218-01-9	10 10	10 10	U U		ug/l	SW846 8270 SW846 8270
Chrysene Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	Ŭ		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	Ū		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1 87-68-3	10 10	10 10	Ŭ		ug/l ug/l	SW846 8270 SW846 8270
Hexachlorobutadiene Hexachlorocyclopentadiene	77-47-4	10	10	Ŭ		ug/l ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	Ü		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	Ü		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10 50	U U		ug/l	SW846 8270
Pentachlorophenol Phenanthrene	87-86-5 85-01-8	50 10	10	U		ug/l ug/l	SW846 8270 SW846 8270
Phenol	108-95-2	10	10	Ü		ug/i ug/i	SW846 8270
Pyrene	129-00-0	10	10	Ŭ		ug/l	SW846 8270
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5 5	U U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5 75-34-3	5 5	5	U		ug/l ug/l	SW846 8260 SW846 8260
1,1-Dichloroethane 1,1-Dichloroethene	75-35-4	5	5	Ü		ug/l ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	Ŭ		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	Ū		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5 5	5 5	U U		ug/l	SW846 8260
1,2-Dibromoethane 1,2-Dichlorobenzene	106-93-4 95-50-1	5	5	U		ug/l ug/l	SW846 8260 SW846 8260
1.2-Dichloroethane	107-06-2	5	5	U		ug/l ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	Ü		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	Ü		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5 5	U U		ug/l	SW846 8260
2-Butanone 2-Chlorotoluene	78-93-3 95-49-8	5 5	5	U		ug/l	SW846 8260 SW846 8260
2-Cinorototuene	フノ ・4 ブーも	3	,	U		ug/l	3 W 040 820U

 Location:
 NA

 Sample ID:
 ER018
 Depth:
 NA

 COE Sample ID:
 FH009-ER018/01-09-97
 Date Collected:
 1/9/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
2-Hexanone	591-78-6	5	5	U	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	ug/l	SW846 8260
Acetone	67-64-1	15	5		ug/l	SW846 8260
Benzene	71-43-2	5	5	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	• 5	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	2	5	J	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	Ü	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	ug/l	SW846 8260

Location: NA
Sample ID: TB030
COE Sample ID: FH
Date Collected: 1/9/9

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
VOLATILE ORGANICS						
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	ug/l	SW846 8260

 Location:
 NA

 Sample ID:
 TB030
 Depth:
 NA

 COE Sample ID:
 FH009-TB030/01-09-97

 Date Collected:
 1/9/97

<u>Parameter</u>	CAS Number	<u>Result</u>	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

 Location:
 NA

 Sample ID:
 TB088
 Depth:
 NA

 COE Sample ID:
 FH009-TB088/03-06-97

 Date Collected:
 3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260

 Location:
 NA

 Sample ID:
 TB088
 Depth:
 NA

 COE Sample ID:
 FH009-TB088/03-06-97
 Date Collected:
 3/6/97

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/i	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	Ū	Ū	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	Ū	Ū	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	Ū	Ŭ	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	Ū	Ū	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	Ū	Ŭ	ug/l	SW846 8260
Acetone	67-64-1	5	5	Ü	Ü	ug/l	SW846 8260
Benzene	71-43-2	5	5	Ŭ	Ü	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	Ü	U	ug/l ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	Ü	U	ug/l	SW846 8260
Bromoform	75-27- 4 75-25-2	5	5	Ü	U		SW846 8260
	73-23-2 74-83-9	5	5	U	U	ug/l	SW846 8260
Bromomethane		5 5	5	U	U	ug/l	
Carbon Tetrachloride	56-23-5		5	-		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5		U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	\mathbf{U}	U	ug/l	SW846 8260
p-Isopropyltoluene	99 - 87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	Ū	Ŭ	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	Ŭ	Ŭ	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	Ŭ	Ŭ	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	Ü	Ŭ	ug/l	SW846 8260

 Location:
 NA

 Sample ID:
 ER094
 Depth:
 NA

 COE Sample ID:
 FH009-ER094/05-07-98

 Date Collected:
 5/7/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	2.9	2.9	U		ug/l	SW846 6010
Barium	7440-39-3	2.4	0.6	В		ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	U		ug/l	SW846 6010
Chromium	7440-47-3	0.73	0.7	В		ug/l	SW846 6010
Lead	7439-92-1	1.9	1.5	В		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	U		ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	U		ug/l	SW846 7740
Silver	7440-22-4	1.4	1.4	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	Ū		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	Ū		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	Ū		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	Ŭ		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	Ū		ug/i	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	Ū		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	Ū		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	Ü		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	Ū		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	Ū		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	Ū		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	Ū		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	Ū		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	Ū		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	Ū		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	Ū		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	Ū		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	Ŭ		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	Ū		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	Ü		ug/l	SW846 8270
Anthracene	120-12-7	10	10	Ü		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	Ū		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	Ū		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	Ŭ		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	Ü		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	Ü		ug/l	SW846 8270
Benzoic Acid	65-85-0	6	50	JВ		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	Ü		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	Ŭ		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	Ŭ		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	Ü		ug/l	SW846 8270
Chrysene	218-01-9	10	10	Ü		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	5	10	JB		ug/l ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	Ü		ug/l ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U			
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorantnene Fluorene			10	U		ug/l	SW846 8270
	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270

 Location:
 NA

 Sample ID:
 ER094
 Depth:
 NA

 COE Sample ID:
 FH009-ER094/05-07-98

 Date Collected:
 5/7/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	10	10	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10 10	10 10	U U	ug/l	SW846 8270
N-Nitrosodiphenylamine Naphthalene	86-30-6 91-20-3	10	10	U	ug/l ug/l	SW846 8270 SW846 8270
Nitrobenzene	98-95-3	10	10	Ü	ug/l ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	Ü	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	Ü	ug/l	SW846 8270
Phenol	108-95-2	4	10	JВ	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	ug/l	SW846 8270
Pyridine	110-86-1	10	10	U	ug/l	SW846 8270
VOLATILE ORGANICS						
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5 5	5 5	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4 120-82-1	5 5	5	U U	ug/l	SW846 8260 SW846 8260
1,2,4-Trichlorobenzene 1,2,4-trimethylbenzene	95-63-6	5 5	5	U	ug/l ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	ug/l ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	Ü	ug/l ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	Ü	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7 594-20-7	5 5	5 5	U U	ug/l	SW846 8260 SW846 8260
2,2-Dichloropropane 2-Butanone	78-93-3	5	5	U	ug/l ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	Ü	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	Ü	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	Ü	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	ug/l	SW846 8260
Acetone	67-64-1	5	5	U	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U ·	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5 5	U	ug/l	SW846 8260
Bromomethane Carbon Tetrachloride	74-83-9 56-23-5	5 5	5	U U	ug/l	SW846 8260 SW846 8260
Chlorobenzene	108-90-7	5	5	U	ug/l ug/l	SW846 8260
Chloroethane	75-00-3	5	5	Ü	ug/l	SW846 8260
Chloroform	67-66-3	5	5	Ŭ	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	Ü	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	Ü	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	Ü	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	ug/l	SW846 8260

 Location:
 NA

 Sample ID:
 ER094
 Depth:
 NA

 COE Sample ID:
 FH009-ER094/05-07-98

 Date Collected:
 5/7/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB101

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.05

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: K17449.D

Level: (lo

(low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 15

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

74-87-3------CHLOROMETHANE 74-83-9-----BROMOMETHANE 6 U 75-01-4-----VINYL CHLORIDE U 6 75-00-3------CHLOROETHANE U 6 75-09-2----METHYLENE CHLORIDE U 6 67-64-1-----ACETONE 5 J 75-35-4-----1 1-DICHLOROETHENE 6 U 75-34-3-----1 1-DICHLOROETHANE U 6 67-66-3-----CHLOROFORM U 6 107-06-2----1 2-DICHLOROETHANE U 6 78-93-3----2-BUTANONE U 6 71-55-6-----1 1 1-TRICHLOROETHANE U 6 56-23-5-----CARBON TETRACHLORIDE U 6 75-27-4-----BROMODICHLOROMETHANE U 6 78-87-5-----1 2-DICHLOROPROPANE U 6 79-01-6-----TRICHLOROETHENE J 3 124-48-1-----DIBROMOCHLOROMETHANE U 79-00-5-----1 1 2-TRICHLOROETHAN \overline{E} U 71-43-2----BENZENE U 75-25-2-----BROMOFORM 6 U 108-10-1----4-METHYL-2-PENTANONE 6 U 591-78-6----2-HEXANONE U 6 127-18-4-----TETRACHLOROETHENE U 6 108-88-3-----TOLUENE U 6 79-34-5-----1 1 2 2-TETRACHLOROETHANE U 6 108-90-7------CHLOROBENZENE U 6 100-41-4----ETHYL BENZENE 6 U 100-42-5----STYRENE U 6 156-59-2----cis-1 2-DICHLOROETHENE U 6 156-60-5-----trans-1 2-DICHLOROETHENE U 6 13-302-07----m,p-XYLENES U 6 95-47-6------XYLENE U 6 106-93-4----1 2-DIBROMOETHANE 6 U 630-20-6-----1 1 1 2-TETRACHLOROETHANE U 6

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB101

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123

Matrix: (soil/water) SOIL Lab Sample ID: 28123.05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: K17449.D

Level: (low/med) LOW Date Received: 01/10/97

% Moisture: not dec. 15 Date Analyzed: 01/16/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

EPA SAMPLE NO.

09SB101

b Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123

Matrix: (soil/water) SOIL Lab Sample ID: 28123.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10990.D

Level: (low/med) LOW Date Received: 01/10/97

% Moisture: not dec. 15 dec. Date Extracted:01/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG (

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q ,
108-95-2	Phenol		390	ט
111-44-4	bis(2-Chloroethyl	ether	390	ע
95-57-8	2-Chlorophenol		390	ַ
541-73-1	1,3-Dichlorobenze	ne	390	U
106-46-7	1,4-Dichlorobenze	ne	390	ַ
100-51-6	Benzyl alcohol		390	U
95-50-1	1,2-Dichlorobenze	ne	390	U
95-48-7	2-Methylphenol		390	U
108-60-1	bis(2-Chloroisopr	opyl)ether_	390	U
106-44-5	4-Methylphenol		390	Ü
621-64-7	N-Nitroso-di-n-pr	opylamine	390	Ü
67-72-1	Hexachloroethane_		390	ן עָי
	Nitrobenzene		390	U
78-59-1	Isophorone		390	U
88-75-5	2-Nitrophenol		390	ָ ט
105-67-9	2,4-Dimethylpheno	1	390	וט
65-85-0	Benzoic Acid		1900	וט
111-91-1	bis(2-Chloroethox	y)methane	390	,
120-83-2	2,4-Dichloropheno	1	390	ָ ט
120-82-1	1,2,4-Trichlorobe	nzene	390	וט
91-20-3	Naphthalene		390	- 1
106-47-8	4-Chloroaniline		390	ŭ
87-68-3	Hexachlorobutadie	ne	390	ן ט ן ט
59-50-7	4-Chloro-3-methyl	.pheno1	390	
91-57-6	2-Methylnaphthale	ene	390	ָ ט
77-47-4	Hexachlorocyclope	entadiene	390	ט
88-06-2	2,4,6-Trichloroph	enol	390	Ü
95-95-4	2,4,5-Trichloroph	enol	1900	اق
91-58-7	2-Chloronaphthale	ene	390	บ
88-74-4	2-Nitroaniline		1900	บ
131-11-3	Dimethylphthalate		390 390	ซ
208-96-8	Acenaphthylene		390	บ
606-20-2	2,6-Dinitrotoluer	1e	390	

EPA SAMPLE NO.

b Name: SWL-TULSA Contract: FT HOOD

09SB101

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123

Matrix: (soil/water) SOIL Lab Sample ID: 28123.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10990.D

Level: (low/med) LOW Date Received: 01/10/97

% Moisture: not dec. 15 dec. Date Extracted:01/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

Q (ug/L or ug/Kg) UG/KG COMPOUND CAS NO. 1900 99-09-2----3-Nitroaniline U 390 83-32-9-----Acenaphthene U 390 121-14-2----2,4-Dinitrotoluene_ U 1900 51-28-5-----2,4-Dinitrophenol_ U 1900 100-02-7----4-Nitrophenol U 390 132-64-9-----Dibenzofuran 390 U 84-66-2-----Diethylphthalate U 7005-72-3----4-Chlorophenyl-phenylether 390 U 390 86-73-7----Fluorene U 1900 100-01-6-----4-Nitroaniline U 534-52-1----4,6-Dinitro-2-methylphenol_ 1900 U 390 86-30-6----N-Nitrosodiphenylamine_(1)__ U 390 101-55-3-----4-Bromophenylphenylether___ U 390 118-74-1-----Hexachlorobenzene U 1900 87-86-5-----Pentachlorophenol U 390 85-01-8-----Phenanthrene U 390 120-12-7-----Anthracene U 390 84-74-2-----Di-n-butylphthalate_ U 390 206-44-0----Fluoranthene U 390 129-00-0-----Pyrene U 390 85-68-7-----Butylbenzylphthalate U 780 91-94-1----3,3 -Dichlorobenzidine U 390 56-55-3----Benzo(a)anthracene U 390 218-01-9-----Chrysene 117-81-7-----bis(2-Ethylhexyl)phthalate_ U 390 390 U U 390 U 390 207-08-9-----Benzo(k)fluoranthene_ U 390 50-32-8-----Benzo(a)pyrene U 390 193-39-5----Indeno(1,2,3-cd)pyrene_ U 390 53-70-3-----Dibenz(a,h)anthracene_ U 390 191-24-2----Benzo(g,h,i)perylene__ U 390 110-86-1-----Pyridine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB101

Contract: FT HOOD b Name: SWL-TULSA

SDG No.: 28123 Lab Code: SWOK Case No.: SAIC SAS No.:

Lab Sample ID: 28123.05 Matrix: (soil/water) SOIL

Lab File ID: P10990.D Sample wt/vol: 30.0 (g/mL) G

Date Received: 01/10/97 Level: (low/med) LOW

Date Extracted: 01/10/97 % Moisture: not dec. 15 dec.

Date Analyzed: 01/15/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 8.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q CAS NO. COMPOUND

390 U 95-9403-----1,2,4,5-Tetrachlorobenzene_

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

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r. P A		4 IVI P		INC

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				12305
	Contra	act: S	SAIC	

Lab Sample ID: 28123.05___

Matrix (soil/water): SOIL_ Level (low/med): LOW_

Date Received: 01/10/97

% Solids: _85.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

	·				 i
CAS No.	Analyte	Concentration	С	Q .	М
7440-38-2	Arsenic	3.6	-		P
7440-38-2	Barium	9.9	-		P_
7440-43-9	Cadmium	0.14	B		P
7440-47-3	Chromium	4.0	-		P P P P
7439-92-1	Lead	4.1	-	${\rm N}$ $-$	$_{\rm P}^{-}$
7439-97-6	Mercury	0.04	ਹ	<u>_</u> *	ΑV
7782-49-2	Selenium	0.33	Ū	\overline{WM}	F
7440-22-4	Silver	0.22	U		P
7440-22-4	211/61				
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	Before: After:	GREYYELLOW	Clarity Clarity	Before: After:	Texture: Artifacts:	MEDIUM
CL	nts: IENT_ID_=	_09SB101				

FORM I - IN

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: FT. HOOD

09SB102

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.06

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: K17450.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 22

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	- 6	l ü
75-01-4	VINYL CHLORIDE	- 6	Ŭ
75-00-3	CHLOROETHANE	- 6	ט ט
75-09-2	METHYLENE CHLORIDE	- 6	ט ו
67-64-1	ACETONE	- 8	"
75- 35-4	1 1-DICHLOROETHENE	- 6	
75-34-3	1 1-DICHLOROETHANE	- 6	ا ت
67-66-3	CHLOROFORM	- 6	l ü
107-06-2	1 2-DICHLOROETHANE	- 6	l ö
78-93-3	2-BUTANONE	- 6	ט ו
71-55-6	1 1 1-TRICHLOROETHANE	- 6	ט ו
56-23-5	CARBON TETRACHLORIDE	- 6	ט ו
75-27-4	BROMODICHLOROMETHANE	- 6	ט ו
78-87-5	1 2-DICHLOROPROPANE	- 6	ן נ
79-01-6	TRICHLOROETHENE	- 6	"
124-48-1	DIBROMOCHLOROMETHANE	- 6	"
79-00-5	1 1 2-TRICHLOROETHANE	- 6	ן ד
71-43-2	BENZENE	- 6	ן ד
75-25-2	BROMOFORM	- 6	ן נ
108-10-1	4-METHYL-2-PENTANONE	- 6	1
591-78-6	2-HEXANONE	- 6	ì
127-18-4	TETRACHLOROETHENE	- 6	1
108-88-3	TOLUENE	- 6	t
79-34-5	1 1 2 2-TETRACHLOROETHANE	- 6	ן נ
108-90-7	CHLOROBENZENE	- 6	ן נ
100-41-4	ETHYL BENZENE	- 6	ן נ
100-42-5	STYRENE	- 6	1 7
156-59-2	cis-1 2-DICHLOROETHENE	- 6	ן נ
156-60-5	trans-1 2-DICHLOROETHENE	-	1 7
13-302-07	m,p-XYLENES	_ 6	
95-47-6	O-XYLENE	_ 6	Ţ
106-93-4	1 2-DIBROMOETHANE	_ 6	Ţ
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	Ţ
000 20 0000	I I Z-IEIRACHLORUETHANE	1 6	l t

Lab Name: SWL-TULSA

Contract: FT. HOOD

09SB102

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.06

Sample wt/vol:

5.0 (g/mL) G

Lab File ID:

K17450.D

LOW

Level: (low/med)

Date Received: 01/10/97

% Moisture: not dec. 22

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	6	U
75-71-8DICHLORODIFLUOROMETHANE 75-69-4TRICHLOROFLUOROMETHANE	6	Ŭ
74-95-3DIBROMOMETHANE	6	ū
96-12-9- 1 2 DIDDOMO 3 GUI ODODDODANIE	3	J
96-12-81 2-DIBROMO-3-CHLOROPROPANE_ 108-86-1BROMOBENZENE	6	Ŭ
104-51-8n-BUTYLBENZENE	6	Ŭ
28-06-6 PURENZENE	6	U
98-06-6tert-BUTYLBENZENE	6	ט
135-98-8sec-BUTYLBENZENE	6	U
95-49-82-CHLOROTOLUENE	6	U
106-43-44-CHLOROTOLUENE	6	U
95-50-11 2-DICHLOROBENZENE	6	U
541-73-11 3-DICHLOROBENZENE	6	U
106-46-71 4-DICHLOROBENZENE	6	U
142-28-91 3-DICHLOROPROPANE	6	U
594-20-72 2-DICHLOROPROPANE	6	Ü
563-58-61 1-DICHLOROPROPENE	6	ט
87-68-3HEXACHLOROBUTADIENE	6	Ü
98-82-8ISOPROPYLBENZENE	6	Ū
99-87-6p-ISOPROPYLTOLUENE	6	Ū
91-20-3NAPHTHALENE	6	Ŭ
103-65-1n-PROPYLBENZENE	6	Ü
87-61-61 2 3-TRICHLOROBENZENE	Ğ	υ
120-82-11 2 4-TRICHLOROBENZENE	6	บ็
95-63-61 2 4-TRIMETHYLBENZENE	6	ט ט
108-67-81 3 5-TRIMETHYLBENZENE	6	ן נ
74-97-5BROMOCHLOROMETHANE	6	T
Broi io chilo Roma Thame	8	

EPA SAMPLE NO.

09SB102

Contract: FT HOOD b Name: SWL-TULSA

SDG No.: 28123 Case No.: SAIC SAS No.: Lab Code: SWOK

Lab Sample ID: 28123.06 Matrix: (soil/water) SOIL

Lab File ID: P10991.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 01/10/97 Level: (low/med) LOW

Date Extracted: 01/10/97 % Moisture: not dec. 22 dec.

Date Analyzed: 01/15/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 7.8

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

CONCENTRATION UNITS:

108-95-2Phenol	420	ט
111-44-4bis(2-Chloroethyl)ether	420	ט
95-57-82-Chlorophenol	420	וט
541-73-11,3-Dichlorobenzene	420	ש
106-46-71,4-Dichlorobenzene	420	ט
100-51-6Benzyl alcohol	420	ט
95-50-11,2-Dichlorobenzene	420	וט
95-48-72-Methylphenol	420	וט
55-48-7	420	וט
108-60-1bis(2-Chloroisopropyl)ether_	420	וט
106-44-54-Methylphenol	420	υl
621-64-7N-Nitroso-di-n-propylamine	420	Ü
67-72-1Hexachloroethane	420	υl
98-95-3Nitrobenzene	420	ŭ
78-59-1Isophorone	420	ال
88-75-52-Nitrophenol	420	اق
105-67-92,4-Dimethylphenol	2000	ŭ
65-85-0Benzoic Acid	420	וט
111-91-1bis(2-Chloroethoxy)methane	420	Ü
120-83-22,4-Dichlorophenol	420	Ü
120-82-11,2,4-Trichlorobenzene	420	ü
91-20-3Naphthalene	1	บ
106-47-84-Chloroaniline	420	ט
87-68-3Hexachlorobutadiene	420	-
59-50-74-Chloro-3-methylphenol	420	Ŭ
91-57-62-Methylnaphthalene	420	ū
77-47-4Hexachlorocyclopentadiene	420	U
88-06-22,4,6-Trichlorophenol	420	ַ
95-95-42,4,5-Trichlorophenol	2000	ַ
91-58-72-Chloronaphthalene	420	ן ט
88-74-42-Nitroaniline	2000	U
131-11-3Dimethylphthalate	420	ן ט
208-96-8Acenaphthylene	420	ן ט
606-20-22,6-Dinitrotoluene	420	ן ט
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB102

b Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123

Matrix: (soil/water) SOIL Lab Sample ID: 28123.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10991.D

Level: (low/med) LOW Date Received: 01/10/97

% Moisture: not dec. 22 dec. Date Extracted:01/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	(ug/L or ug	/Kg)	UG/KG	Q
99-09-2	3-Nitroanilin	e		2000	ט
02-22-0	Acenaphthene			420	וַט
121-14-2	2.4-Dinitroto	luene		420	U
51-28-5	2,4-Dinitroto 2,4-Dinitroph 4-Nitrophenol	enol	_1	2000	U
100-02-7	4-Nitrophenol			2000	U
132-64-9	Dibenzofuran_			420	ַ
84-66-2	Diethvlphthal	.ate		420	ש
7005-72-3	4-Chloropheny	l-phenylether		420	ַ
86-73-7	Fluorene			420	ַ
100-01-6	4-Nitroanilir	ie		2000	ַ
531-52-1	4.6-Dinitro-2	-methylphenol		2000	ַ
86-30-6	N-Nitrosodiph	nenvlamine (1)	7	420	ט
101-55-3	4-Bromopheny	phenylether	_	420	ַ
118-74-1	Hexachlorober	izene	-	420	ַ ט
97-86-5	Pentachloroph	nenol	_	2000	ט
95-01-8	Phenanthrene		-1	420	ן ט
120-12-7	Anthracene		-	420	ן ט
24-74-2	Di-n-butylphi	halate	-	420	U
206-44-0	Fluoranthene		-	420	U
129-00-0			-	420	U
129-00-0	Butylbenzylpl	nthalate	-	420	ַ ט
85-68-7	2 21-Dighlor	phenzidine	-	850	ע
91-94-1	3,3'-Dichlord	racene	-1	420	ט
56-55-3	Chriscop	Lacenc	-1	420	ט
218-01-9	Chrysene bis(2-Ethylh	ovvil\phthalate	-	420	ט
117-81-7	Di-p-octuinh	thalato	-	420	บ
117-84-0	Di-n-octylph	ranthene	-	420	ប
205-99-2	Benzo(b)fluo	ranthone	-	420	ប
207-08-9	Benzo(k)fluo	ranchene		420	U
50-32-8	Benzo(a)pyre	ne	-	420	U
193-39-5	Indeno (1,2,3	-calbarene	-	420	Ū
53-70-3	Dibenz(a,h)a	nunracene	-	420	Ū
191-24-2	Benzo(g,h,i)	Бетатепе	-	420	ט ו
110-86-1	Pyridine		-	-120	
					l ———

09SB102

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.06

Lab File ID:

P10991.D

Sample wt/vol:

30.0 (g/mL) G

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 22

dec.

Date Extracted:01/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene_

420

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

12306

								123	06
Lab	Name:	SOUTHWEST	LAB OF	OK	(Contract: SAIC			
	Code:		- Case	No.:	28123	SAS No.:	S		28123A

Matrix (soil/water): SOIL_

Level (low/med): LOW

Lab Sample ID: 28123.06_ Date Received: 01/10/97

_78.0 % Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					i
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	5.9			P_
7440-39-3	Barium	19.6	_		P_
7440-43-9	Cadmium_	0.20	B		P_
7440-47-3	Chromium_	11.4	_	E*	P_
7439-92-1	Lead	6.7		N	P_
7439-97-6	Mercury_	0.04		*	ΑV
7782-49-2	Selenium_	0.36		N	F_P
7440-22-4	Silver	0.24	U		-
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Color Before: Color After:	GREY	Clarity Clarity		Texture: Artifacts:	MEDIUM
Comments: CLIENT_ID_=	_09SB102		-		
		FODI	M T - TN		

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: FT. HOOD

09SB103

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.07

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: K17451.D

Level: (low/med)

LOW

Date Received: 01/10/97

% Moisture: not dec. 10

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

74-87-3CHLOROMETHANE	6	U
74-83-9BROMOMETHANE	6	Ü
75-01-4VINYL CHLORIDE	6	Ü
75-00-3CHLOROETHANE	6	וט
75-09-2METHYLENE CHLORIDE	3	J
67-64-1ACETONE	16	٦
75-35-41 1-DICHLOROETHENE	6	
75-34-31 1-DICHLOROETHANE	6	ŭ
67-66-3CHLOROFORM	6	اق
107-06-21 2-DICHLOROETHANE	6	Ü
78-93-32-BUTANONE	ő	Ü
71-55-61 1 1-TRICHLOROETHANE	6	Ü
56-23-5CARBON TETRACHLORIDE	6	ŭ
1 75-27-4BROMODICHLOROMETHANE	6	Ŭ
78-87-51 2-DICHLOROPROPANE	6	Ü
79-01-6TRICHLOROETHENE	6	Ü
124-48-1DIBROMOCHLOROMETHANE	6	Ü
79-00-51 1 2-TRICHLOROETHANE	6	Ŭ
71-43-2BENZENE	6	Ü
75-25-2BROMOFORM	6	Ü
108-10-14-METHYL-2-PENTANONE	6	Ü
591-78-62-HEXANONE	6	Ŭ
127-18-4TETRACHLOROETHENE	6	Ŭ
108-88-3TOLUENE	4	J
79-34-51 1 2 2-TETRACHLOROETHANE	6	Ü
108-90-7CHLOROBENZENE	6	Ü
100-41-4ETHYL BENZENE	6	Ü
100-42-5STYRENE	6	Ü
156-59-2cis-1 2-DICHLOROETHENE	6	Ŭ
156-60-5trans-1 2-DICHLOROETHENE	6	<u>ט</u>
13-302-07m.p-XYLENES	6	ال
95-47-6XYLENE	6	Ü
106-93-41 2-DIBROMOETHANE	6	ן ט
630-20-61 1 1 2-TETRACHLOROETHANE	6	υ
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09SB103

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123

Matrix: (soil/water) SOIL Lab Sample ID: 28123.07

Sample wt/vol: 5.0 (q/mL) G Lab File ID: K17451.D

Level: (low/med) LOW Date Received: 01/10/97

% Moisture: not dec. 10 Date Analyzed: 01/16/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	6	ט
75-71-8DICHLORODIFLUOROMETHANE	6	ال
75-69-4TRICHLOROFILIOROMETHANE	6	וט
74-95-3DIBROMOMETHANE	6	. 6
96-12-81 2-DIBROMO-3-CHLOROPROPANE	6	Ü
108-86-1BROMOBENZENE	6	ŭ
104-51-8n-BUTYLBENZENE	6	ŭ
98-06-6tert-BUTYLBENZENE	6	ŭ
135-98-8sec-BUTYLBENZENE	6	וט
95-49-82-CHLOROTOLUENE	6	ال
106-43-44-CHLOROTOLUENE	6	וט
95-50-11 2-DICHLOROBENZENE	6	וט
541-73-11 3-DICHLOROBENZENE	6	ŭ
106-46-71 4-DICHLOROBENZENE	6	ŭ
142-28-91 3-DICHLOROPROPANE	6	Ü
594-20-72 2-DICHLOROPROPANE	6	וט
563-58-61 1-DICHLOROPROPENE	6	Ü
87-68-3HEXACHLOROBUTADIENE	6	Ü
98-82-8ISOPROPYLBENZENE	6	Ü
99-87-6p-ISOPROPYLTOLUENE	6	Ü
91-20-3NAPHTHALENE	6	<u>ט</u>
103-65-1n-PROPYLBENZENE	6	Ü
87-61-61 2 3-TRICHLOROBENZENE	6	Ü
120-82-11 2 4-TRICHLOROBENZENE	6	Ü
95-63-61 2 4-TRICHLOROBENZENE	6	Ü
108-67-81 3 5-TRIMETHYLBENZENE	6	ש
74-97-5BROMOCHLOROMETHANE	6	ש
/4-5/-3BROMOCHLOROMETHAME	9	"
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1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB103

Contract: FT HOOD b Name: SWL-TULSA

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123

Lab Sample ID: 28123.07 Matrix: (soil/water) SOIL

Lab File ID: P10992.D 30.0 (g/mL) GSample wt/vol:

Date Received: 01/10/97 Level: (low/med) LOW

Date Extracted: 01/10/97 % Moisture: not dec. 10 dec.

Date Analyzed: 01/15/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 pH: 8.1 GPC Cleanup: (Y/N) N

> CONCENTRATION UNITS: (ug/T. or ug/Kg) UG/KG COMPOUND CAS NO.

CAS NO.	COMPOUND	(ug/L or	ug/kg)	UG/ KG	Q
108-95-2	Phenol			370	U
111-11-1	bis(2-Chloroe	thvl)ether		370	ע
05-57-9	2-Chloropheno	1 1		370	U
5/1-72-1	1,3-Dichlorok	enzene		370	וט
106-46-7	1,4-Dichlorok	enzene		370	ן ט
100-40-7	Benzyl alcoho	1		370	ן ט
05-50-1	1,2-Dichlorok	enzene		370	U
05-49-7	2-Methylphen	ol		370	U
109-60-1	bis(2-Chloro	sopropyl)ethe	er	370	ע
106-00 1	4-Methylpheno		_	370	ַ ט
621-64-7	N-Nitroso-di	n-propylamin	e	370	U
67-79-1	Hexachloroetl	nane		370	U
07-72-1	Nitrobenzene			370	ַ
79-50-1	Isophorone			370	U
70-35-1	2-Nitropheno			370	U
105-67-9	2,4-Dimethyl	phenol		370	U
65-95-0	Benzoic Acid			1800	U
111-01-1	bis(2-Chloro	ethoxy)methan	e	370	U
120-83-2	2,4-Dichloro	ohenol		370	U
120-03-2	1,2,4-Trichl	orobenzene		370	U
01-20-3	Naphthalene_			370	Ū
106-47-8	4-ChloroaniI	ine		370	U
07_60_2	Hexachlorobu	tadiene		370	U
50-50-7	4-Chloro-3-m	ethylphenol		370	U
01-57-6	2-Methylnaph	thalene		370	U
77-47-4	Hexachlorocy	clopentadiene		370	บ
09-06-2	2,4,6-Trichl	orophenol		370	U
05-00-2	2,4,5-Trichl	orophenol		1800	U
01-50-7	2-Chloronaph	thalene		370	U
91-30-7	2-Nitroanili	ne		1800	U
121-11-2	Dimethylphth	alate		370	U
131-11-3	Acenaphthyle	ne		370	U
208-96-8	2,6-Dinitrot	oluene		370	ט
000-20-2	2,6-DINICIO				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB103 Contract: FT HOOD b Name: SWL-TULSA

SDG No.: 28123 SAS No.: Case No.: SAIC Tab Code: SWOK

Lab Sample ID: 28123.07

Matrix: (soil/water) SOIL

Lab File ID: P10992.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 01/10/97 (low/med) LOW Level:

Date Extracted: 01/10/97 dec. % Moisture: not dec. 10

Date Analyzed: 01/15/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 pH: 8.1 (Y/N) N GPC Cleanup:

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q CAS NO. COMPOUND 1800 U 99-09-2----3-Nitroaniline U 370 83-32-9----Acenaphthene 370 U 121-14-2----2,4-Dinitrotoluene_ U 1800 51-28-5----2,4-Dinitrophenol_ U 1800 100-02-7----4-Nitrophenol U 370 132-64-9-----Dibenzofuran U 370 84-66-2-----Diethylphthalate U 370 7005-72-3----4-Chlorophenyl-phenylether U 370 86-73-7-----Fluorene U 1800 100-01-6----4-Nitroaniline U 1800 534-52-1----4,6-Dinitro-2-methylphenol_ U 370 86-30-6----Nitrosodiphenylamine_(1)_ U 370 101-55-3----4-Bromophenylphenylether___ U 370 118-74-1-----Hexachlorobenzene U 1800 87-86-5-----Pentachlorophenol_ U 370 85-01-8-----Phenanthrene U 370 120-12-7-----Anthracene U 370 84-74-2-----Di-n-butylphthalate_ U 370 206-44-0----Fluoranthene U 370 129-00-0----Pyrene U 370 85-68-7-----Butylbenzylphthalate U 730 91-94-1----3,3'-Dichlorobenzidine_ U 370 56-55-3----Benzo(a)anthracene U 370 218-01-9-----Chrysene J 40 117-81-7-----bis(2-Ethylhexyl)phthalate_ U 370 117-84-0-----Di-n-octylphthalate U 370 205-99-2----Benzo(b)fluoranthene U 370 207-08-9----Benzo(k)fluoranthene_ U 370 50-32-8-----Benzo(a)pyrene U 370 193-39-5----Indeno(1,2,3-cd)pyrene U 370 53-70-3-----Dibenz(a,h)anthracene_ U 370 191-24-2----Benzo(g,h,i)perylene_ U 370 110-86-1-----Pyridine_

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB103

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.07

30.0 (g/mL) G Sample wt/vol:

Lab File ID: P10992.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 10 dec.

Date Extracted:01/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/15/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N pH: 8.1

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

370 U 95-9403-----1,2,4,5-Tetrachlorobenzene_

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

ממים	SAMPLE	MO
CFA	OFFICE	IAO

		Combined to SATC	12307
Lab Name: SOUTHWEST_I	TAB OF OK	Contract: SAIC	
Lab Code: SWOK	Case No.: 281	23 SAS No.:	SDG No.: 28123A
Matrix (soil/water):	SOIL		Sample ID: 28123.07
Level (low/med):	LOW	Date	Received: 01/10/97
% Solids:	_89.7		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	М
7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	Arsenic_Barium_Cadmium_Chromium_Lead_Mercury_Selenium_Silver_	4.5 13.2 0.17 5.8 5.9 0.04 0.31	_ - - - - - - - - - -	E* N * N	P_ P_ P_ P_ AV F_ P_
			 - - - - - -		
			-		

Color Before: Color After:	GREY	Clarity Before: Clarity After:	Texture: Artifacts:	MEDIUM
Comments: CLIENT_ID_=	_09SB103	•		
		FORM I - IN		

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB104

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28145

Matrix: (soil/water) SOIL

Lab Sample ID: 28145.03

5.0 (g/mL) G

Lab File ID: K17469.D

Sample wt/vol:

Level: (low/med)

Date Received: 01/11/97

% Moisture: not dec. 11

Date Analyzed: 01/17/97

_...

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

09SB104

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145

Matrix: (soil/water) SOIL Lab Sample ID: 23145.03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: K17469.D

Level: (low/med) LOW Date Received: 01/11/97

% Moisture: not dec. 11 Date Analyzed: 01/17/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	6	ט
75-71-8DICHLORODIFLUOROMETHANE	6	ט
75-69-4TRICHLOROFLUOROMETHANE	6	ע
74-95-3DIBROMOMETHANE	6	ַ
96-12-81 2-DIBROMO-3-CHLOROPROPANE_	6	U
108-86-1BROMOBENZENE	6	ן ט
104-51-8n-BUTYLBENZENE	6	וט
98-06-6tert-BUTYLBENZENE	6	ן ט
135-98-8sec-BUTYLBENZENE	6	ש
95-49-82-CHLOROTOLUENE	6	וט
106-43-44-CHLOROTOLUENE	6	ט
95-50-11 2-DICHLOROBENZENE	6	וט
541-73-11 3-DICHLOROBENZENE	6	ט
106-46-71 4-DICHLOROBENZENE	6	ט
142-28-91 3-DICHLOROPROPANE	6	Ü
594-20-72 2-DICHLOROPROPANE	6	Ū
563-58-61 1-DICHLOROPROPENE	6	Ū
87-68-3HEXACHLOROBUTADIENE	6	Ŭ
98-82-8ISOPROPYLBENZENE	6	Ŭ
99-87-6p-ISOPROPYLTOLUENE	6	Ü
91-20-3NAPHTHALENE	6	<u>ט</u>
103-65-1n-PROPYLBENZENE	6	Ü
87-61-61 2 3-TRICHLOROBENZENE	6	ŭ
	-	Ü
120-82-11 2 4-TRICHLOROBENZENE	6	ט
95-63-61 2 4-TRIMETHYLBENZENE	6	
108-67-81 3 5-TRIMETHYLBENZENE	6	ū
74-97-5BROMOCHLOROMETHANE	. 6	ן ט
		l l

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB104

S Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145

Matrix: (soil/water) SOIL Lab Sample ID: 28145.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11072.D

Level: (low/med) LOW Date Received: 01/11/97

% Moisture: not dec. 11 dec. Date Extracted:01/13/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/17/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/kg) UG/kG Q

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB104 Contract: FT. HOOD b Name: SWL-TULSA

SDG No.: 28145 Case No.: SAIC SAS No.: Lab Code: SWOK

Lab Sample ID: 28145.03 Matrix: (soil/water) SOIL

Lab File ID: P11072.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 01/11/97 Level: (low/med) LOW

Date Extracted: 01/13/97 11 dec. % Moisture: not dec.

Date Analyzed: 01/17/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 7.8

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

CAS NO.	COMPOUND (ug/L or ug	/kg) og/kg	<u>~</u> .
	3-Nitroaniline	1800	ט
99-09-2		370	ע
83-32-9	Acenaphthene	370	יט
121-14-2	2,4-Dinitrotoluene	1800	וט
51-28-5	2,4-Dinitrophenol	1800	וט
100-02-7	4-Nitrophenol	370	וט
132-64-9	Dibenzofuran	370	וט
84-66-2	Diethylphthalate 4-Chlorophenyl-phenylether	370	וט
7005-72-3	4-Culorophenyl-phenylechel_	- 370	וט
86-73-7	Fluorene	1800	וט
100-01-6	4-Nitroaniline	1800	וט
534-52-1	4,6-Dinitro-2-methylphenol	370	ט
86-30-6	N-Nitrosodiphenylamine_(1)	370	וֹט
101-55-3	4_Bromophenyiphenyiether	- 370	וט
118-74-1	Hexachlorobenzene	1800	וט
87-86-5	Pentachlorophenol	- 370	ŭl
85-01-8	Phenanthrene	- 370	וט
120-12-7	Anthracene	- 370	Ü
84-74-2	Di-n-butylphthalate	- 370 370	Ü
206-44-0	Fluoranthene	- 370 370	Ü
129-00-0	Pyrene	- 370 370	ŭ
85-68-7	Butylbenzylphthalate	740	ן ט
1 91-94-1	3,3'-Dichtoropenziaine	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	บี
56-55-3	Benzo(a)anthracene		ן ט
219-01-9	Chrysene	370	ן ט
117-81-7	bis(2-Ethylhexyl)phthalate	370 - 370	Ü
1 117-84-0	Di-n-octylphthalate		บี
205-99-2	Benzo(b)fluoranthene	370	ן ט
207-08-9	Benzo(k)fluoranthene	370	ָ ט
50-32-8	Benzo(a)pyrene	370	ן ט
193-39-5	Indeno(1,2,3-cd)pyrene	370	
53-70-3	Dibenz(a,h)anthracene	370	Ü
191-24-2	Benzo(g,h,i)perylene	370	ויי
110-86-1	Pyridine	<u> </u>	ן ט
	Tyrrumo		l

EPA SAMPLE NO.

09SB104

o Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145

Matrix: (soil/water) SOIL Lab Sample ID: 28145.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11072.D

Level: (low/med) LOW Date Received: 01/11/97

% Moisture: not dec. 11 dec. Date Extracted:01/13/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/17/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

95-9403-----1,2,4,5-Tetrachlorobenzene___ 370 U

U.S. EPA - CLP

1 TNORGANIC ANALYSES DATA SHEET

	CRICATE	370
H: D A	SAMPLE	NI()

INORGANIC	ANALISES DATA SHEET	1
		14503
ST LAB OF OK	Contract: SAIC	
Cage No · 2	8145 SAS NO ·	SDG No · 28145

Lab Name: SOUTHWEST_LAB_OF_OK____ Contract: SAIC_____ Lab Code: SWOK___ Case No.: 28145 SAS No.: SDG No.: 28145_
Matrix (soil/water): SOIL_ Lab Sample ID: 28145.03___
Level_(low/med): LOW____ Date Received: 01/11/97

% Solids: _89.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					— I
CAS' No.	Analyte	Concentration	C	Q	М
7440-38-2	Arsenic	3.7	-		P
7440-39-3	Barium	7.8	-		P^-
7440-43-9	Cadmium	0.15	\overline{B}		P_
7440-47-3	Chromium	4.3			P_
7439-92-1	Lead	3.2			P_
7439-97-6	Mercury_	0.04			ΑV
7782-49-2	Selenium_	0.31	U	W	F_
7440-22-4	Silver	0.21	ט		P_
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Color Before:	GREYYELLOW	Clarity Clarity	Before:	 Texture: Artifacts:	MEDIUM
Color After: Comments: CLIENT ID =		Clarity			
		FORI	M I - IN		

ILM02.1

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145

Matrix: (soil/water) SOIL Lab Sample ID: 28145.02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: K17456.D

Level: (low/med) LOW Date Received: 01/11/97

% Moisture: not dec. 10 Date Analyzed: 01/16/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3------CHLOROMETHANE 6 U 74-83-9-----BROMOMETHANE 6 U 75-01-4-----VINYL CHLORIDE 6 U 75-00-3------CHLOROETHANE 6 U 75-09-2-----METHYLENE CHLORIDE 6 U 67-64-1-----ACETONE J 3 75-35-4-----1 1-DICHLOROETHENE 6 U 75-34-3-----1 1-DICHLOROETHANE U 6 67-66-3-----CHLOROFORM U 6 107-06-2----1 2-DICHLOROETHANE מטטטט 6 78-93-3----2-BUTANONE 6 71-55-6-----1 1 1-TRICHLOROETHANE 6 56-23-5-----CARBON TETRACHLORIDE 6 75-27-4-----BROMODICHLOROMETHANE 6 78-87-5-----1 2-DICHLOROPROPANE Ū 6 79-01-6-----TRICHLOROETHENE Ū 6 124-48-1-----DIBROMOCHLOROMETHANE Ū 6 79-00-5-----1 1 2-TRICHLOROETHANE Ū 6 71-43-2----BENZENE U 6 75-25-2-----BROMOFORM U 6 108-10-1----4-METHYL-2-PENTANONE U 6 591-78-6----2-HEXANONE U 6 127-18-4----TETRACHLOROETHENE U 6 108-88-3-----TOLUENE ŭ U 6 79-34-5-----1 1 2 2-TETRACHLOROETHANE 6 108-90-7-----CHLOROBENZENE Ū 6 Ū 100-41-4----ETHYL BENZENE 6 100-42-5-----STYRENE Ū 6 156-59-2----cis-1 2-DICHLOROETHENE U 6 156-60-5-----trans-1 2-DICHLOROETHENE U 6 13-302-07----m,p-XYLENES U 6 95-47-6------XYLENE U 6 106-93-4-----1 2-DIBROMOETHANE 6 U 630-20-6----- 1 1 1 2-TETRACHLOROETHANE 6 U

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

09SB105

SDG No.: 28145

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 28145.02

Sample wt/vol: 5.0 (g/mL) GLab File ID: K17456.D

Level: (low/med) LOW Date Received: 01/11/97

% Moisture: not dec. 10 Date Analyzed: 01/16/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	6	וט
75-71-8DICHLORODIFLUOROMETHANE	6	υl
75-69-4TRICHLOROFLUOROMETHANE	6	ŭ
74-95-3DIBROMOMETHANE	6	ŭ
96-12-81 2-DIBROMO-3-CHLOROPROPANE	6	Ŭ
108-86-1BROMOBENZENE	6	Ü
104-51-8n-BUTYLBENZENE	6	ŭ
98-06-6tert-BUTYLBENZENE	6	Ŭ
135-98-8sec-BUTYLBENZENE	6	Ü
95-49-82-CHLOROTOLUENE	6	ŭ
106-43-44-CHLOROTOLUENE	6	Ü
95-50-11 2-DICHLOROBENZENE	6	Ŭ
541-73-11 3-DICHLOROBENZENE	6	Ŭ
106-46-71 4-DICHLOROBENZENE	6	บ
142-28-91 3-DICHLOROPROPANE	6	Ü
594-20-72 2-DICHLOROPROPANE	6	Ü
563-58-61 1-DICHLOROPROPENE	6	บ
87-68-3HEXACHLOROBUTADIENE	6	Ü
98-82-8ISOPROPYLBENZENE	6	Ü
99-87-6p-ISOPROPYLTOLUENE	6	บี
91-20-3NAPHTHALENE	6	บ็
103-65-1n-PROPYLBENZENE	6	Ü
87-61-61 2 3-TRICHLOROBENZENE	6	บ
120-82-11 2 4-TRICHLOROBENZENE	6	ט
95-63-61 2 4-TRIMETHYLBENZENE	6	ם
108-67-81 3 5-TRIMETHYLBENZENE	6	ט
74-97-5BROMOCHLOROMETHANE	6	U U
	6	1
		l

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB105

b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145

Matrix: (soil/water) SOIL Lab Sample ID: 28145.02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11153.D

Level: (low/med) LOW Date Received: 01/11/97

% Moisture: not dec. 11 dec. Date Extracted:01/20/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/22/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COM COMD (49/2 02 09/		
	Phonel	370	U
108-95-2	his /2 Chloroothyllether	370	ΰl
111-44-4	bis(2-Chloroethyl)ether	370	υ
95-57-8	2-Chlorophenol	370	ΰl
541-/3-1	1,3-Dichlorobenzene	370	וֹט
106-46-7	1,4-Dichlorobenzene	370	ŭ
100-51-6	Benzyl alcohol	370	<u>ט</u>
95-50-1	1,2-Dichlorobenzene	370	ΰl
95-48-7	2-Methylphenol	370	וט
108-60-1	bis(2-Chloroisopropyl)ether_	1	Ü
106-44-5	4-Methylphenol	370 370	ט
621-64-7	N-Nitroso-di-n-propylamine		
67-72-1	Hexachloroethane	370	U
	Nitrobenzene	370	U
78-59-1	Isophorone	370	Ŭ
88-75-5	2-Nitrophenol	370	Ü
105-67-9	2,4-Dimethylphenol	370	<u>ט</u>
65-85-0	Benzoic Acid	1800	ן ע
111-91-1	bis(2-Chloroethoxy)methane	370	ן יי
120-83-2	2,4-Dichlorophenol	370	ת ש
120-82-1	1,2,4-Trichlorobenzene	370	ן ע
91-20-3	Naphthalene	370	ן ט
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	ַ ט
59-50-7	4-Chloro-3-methylphenol	370	1 1
91-57-6	2-Methylnaphthalene	370	
77-47-4	Hexachlorocyclopentadiene	370	
88-06-2	2,4,6-Trichlorophenol	370	
95-95-4	2,4,5-Trichlorophenol	1800	
91-58-7	2-Chloronaphthalene	370	
88-74-4	2-Nitroaniline	1800	
131-11-3	Dimethylphthalate	370	ע
208-86-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	ט
000-20-2	Z, O Dinitorocordono		1
		.	

09SB105

Contract: FT. HOOD o Name: SWL-TULSA

SDG No.: 28145 Case No.: SAIC SAS No.: Lab Code: SWOK

Lab Sample ID: 28145.02 Matrix: (soil/water) SOIL

P11153.D Lab File ID: 30.0 (g/mL) G

Sample wt/vol: Date Received: 01/11/97 (low/med) LOW Level:

Date Extracted: 01/20/97 % Moisture: not dec. dec. 11

Date Analyzed: 01/22/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 pH: 7.6 GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

CAS NO.	COMPOUND (ug/H of ug/	/ 1.tg / 00 / 1.to	
121-14-2 51-28-5 100-02-7 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 87-86-5 85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7 117-84-0 205-99-2 207-08-9 50-32-8	Acenaphthene2,4-Dinitrotoluene2,4-Dinitrophenol4-NitrophenolDibenzofuranDiethylphthalate4-Chlorophenyl-phenyletherFluorene4,6-Dinitro-2-methylphenolN-Nitrosodiphenylamine (1)4-BromophenylphenyletherHexachlorobenzenePentachlorophenolPhenanthreneDi-n-butylphthalateFluorantheneButylbenzylphthalateBenzo(a)anthraceneChrysenebis(2-Ethylhexyl)phthalate	1800 370 370 1800 1800 370 370 370 370 370 370 370 3	ט ט ט
50-32-8 193-39-5 53-70-3	Benzo(a)pyrene	- 370	U U U

EPA SAMPLE NO.

09SB105

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28145

Matrix: (soil/water) SOIL

Lab Sample ID: 28145.02

30.0 (g/mL) G

Lab File ID: P11153.D

Sample wt/vol:

LOW

Date Received: 01/11/97

(low/med) Level:

% Moisture: not dec. 11 dec. Date Extracted: 01/20/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/22/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup:

(Y/N) N

pH: 7.6

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

U

95-9403-----1,2,4,5-Tetrachlorobenzene

370

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

	~ ~		_	370
EPA	C. V	MUI	. 6	NO.

Lab Name: SOUTHWEST I	LAR OF OK	Con	tract: SA	IC	14502
Lab Code: SWOK Matrix (soil/water): Level (low/med):	Case No.:		SAS No.:	Lab Sample	SDG No.: 28145_ e ID: 28145.02_ eved: 01/11/97
Solids:	_89.5				

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					I
CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	2.5	-		P
7440-39-3	Barium	15.0	-		P
7440-43-9	Cadmium	0.14	B		P_
7440-47-3	Chromium	3.6			P
7439-92-1	Lead	2.2	-		P
7439-97-6	Mercury	0.04	Ū		ΑV
7782-49-2	Selenium	1.6	U	W	F
7440-22-4	Silver	0.21	U		P_
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Color Before: Color After:	GREYYELLOW	Clarity Before: Clarity After:	 Texture: Artifacts:	MEDIUN
Comments: CLIENT_ID_=	_09SB105			
		FORM I - IN		

Lab Name: SWL-TULSA Contract: FT. HOOD PH

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23775.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 18 Date Analyzed: 03/14/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	<u> </u>			
74-87-3	CHLOROMETHANE		6	U
	BROMOMETHANE	•	6	וט
75-01-4		•	6	Ū
	CHLOROETHANE	-	6	ש
	METHYLENE CHLORIDE	•	6	וט
67-64-1		•	17	
	1 1-DICHLOROETHENE	•	6	- ਹ
	1 1-DICHLOROETHANE	-	6	ן ט
	CHLOROFORM	-	6	ן ט
	1 2-DICHLOROETHANE	-	6	ן ט
	2-BUTANONE	-	6	ן ט
71-55-6		-i	6	ן ט
56-23-5	CARBON TETRACHLORIDE	-	6	ן ט
75-27-4	BROMODICHLOROMETHANE	-	6	ש
78-87-5	1 2-DICHLOROPROPANE	-	6	וט
79-01-6	TRICHLOROETHENE	-	6	ן ט
124-48-1	DIBROMOCHLOROMETHANE	-	6	ן ט
79-00-5		-	6	ע
71-43-2	BENZENE	-	6	ע
75-25-2	BROMOFORM	-	6	ע
108-10-1	4-METHYL-2-PENTANONE	-	6	U
591-78-6	2-HEXANONE		6	ן ט
127-18-4	TETRACHLOROETHENE	-	6	ע
108-88-3		-	6	ַ ע
79-34-5	1 1 2 2-TETRACHLOROETHANE	-	6	ש
108-90-7	CHLOROBENZENE	-	6	ן ט
	ETHYL BENZENE	-	6	ט
100-42-5	STYRENE	-	6	ט
156-59-2	cis-1 2-DICHLOROETHENE	-	6	ש
156-60-5	trans-1 2-DICHLOROETHENE	_	6	ן ט
	m,p-XYLENES	-	6	U
	O-XYLENE	_	6	U
	1 2-DIBROMOETHANE	-	6	ַ ד
630-20-6		_	6	U
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EPA SAMPLE NO.

09SB106

SDG No.: 28743

Lab Name: SWL-TULSA Contract: FT. HOOD PH

Case No.: SAIC

5.0 (g/mL) G

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SAS No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.11

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Lab File ID: C23775.D

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Lab Code: SWOK

Sample wt/vol:

Date Received: 03/07/97

Level: (low/med) LOW

Date Analyzed: 03/14/97

% Moisture: not dec. 18

2400 121421 201, 21, 2

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

98-82-8-----ISOPROPYLBENZENE

103-65-1----n-PROPYLBENZENE

91-20-3-----NAPHTHALENE

99-87-6----p-ISOPROPYLTOLUENE

87-61-6-----1 2 3-TRICHLOROBENZENE

120-82-1-----1 2 4-TRICHLOROBENZENE

95-63-6----1 2 4-TRIMETHYLBENZENE

108-67-8-----1 3 5-TRIMETHYLBENZENE

74-97-5----BROMOCHLOROMETHANE

6 U 96-18-4-----1 2 3-TRICHLOROPROPANE 75-71-8-----DICHLORODIFLUOROMETHANE6 U U 75-69-4----TRICHLOROFLUOROMETHANE 6 U 74-95-3-----DIBROMOMETHANE 6 96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE 6 U 6 U 108-86-1-----BROMOBENZENE 6 U 104-51-8----n-BUTYLBENZENE U 6 98-06-6-----tert-BUTYLBENZENE 6 U 135-98-8-----sec-BUTYLBENZENE 95-49-8----2-CHLOROTOLUENE 6 U U 6 U 6 95-50-1----- 2-DICHLOROBENZENE 6 U 541-73-1----1 3-DICHLOROBENZENE 6 U 106-46-7----- 4-DICHLOROBENZENE U 6 6 U 6 U 6 U 87-68-3-----HEXACHLOROBUTADIENE

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB106

Contract: FT.HOOD ab Name: SWL-TULSA

SDG No.: 28743 SAS No.: Case No.: SAIC Lub Code: SWOK

Lab Sample ID: 28743.11 Matrix: (soil/water) SOIL

Lab File ID: M5117.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 03/07/97 LOW (low/med) Level:

Date Extracted: 03/07/97 dec. 18 % Moisture: not dec.

Date Analyzed: 03/12/97 SONC Extraction: (SepF/Cont/Sonc)

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 pH: 7.8 (Y/N) N GPC Cleanup:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO. 400 U 108-95-2----Phenol U 111-44-4-----bis(2-Chloroethyl)ether_ 400 400 U 95-57-8----2-Chlorophenol U 541-73-1-----1,3-Dichlorobenzene 400 400 U 106-46-7-----1,4-Dichlorobenzene U 400 100-51-6----Benzyl alcohol 95-50-1-----1,2-Dichlorobenzene U 400 U 400 95-48-7----2-Methylphenol 108-60-1----bis(2-Chloroisopropyl)ether U 400 U 400 106-44-5----4-Methylphenol U 621-64-7----N-Nitroso-di-n-propylamine 400 U 400 67-72-1-----Hexachloroethane___ U 400 98-95-3-----Nitrobenzene_ U 400 78-59-1----Isophorone U 400 88-75-5----2-Nitrophenol U 400 105-67-9----2,4-Dimethylphenol_ U 2000 65-85-0-----Benzoic Acid U 111-91-1-----bis(2-Chloroethoxy)methane 400 U 400 120-83-2----2,4-Dichlorophenol 120-82-1----1,2,4-Trichlorobenzene U 400 U 400 91-20-3----Naphthalene U 400 106-47-8-----4-Chloroaniline U 400 87-68-3-----Hexachlorobutadiene U 400 59-50-7----4-Chloro-3-methylphenol 91-57-6----2-Methylnaphthalene U 400 U 400 77-47-4----Hexachlorocyclopentadiene_ 88-06-2----2,4,6-Trichlorophenol U 400 U 2000 95-95-4----2,4,5-Trichlorophenol_ U 400 91-58-7----2-Chloronaphthalene_ U 2000 88-74-4----2-Nitroaniline U 400 131-11-3-----Dimethylphthalate U 400 208-96-8-----Acenaphthylene U 400 606-20-2----2,6-Dinitrotoluene

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB106

Contract: FT.HOOD Tab Name: SWL-TULSA

SDG No.: 28743 SAS No.: Case No.: SAIC _ab Code: SWOK

Lab Sample ID: 28743.11 Matrix: (soil/water) SOIL

Lab File ID: M5117.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 03/07/97 LOW (low/med) Level:

Date Extracted: 03/07/97 dec. % Moisture: not dec. 18

Date Analyzed: 03/12/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 pH: 7.8 GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG 0 CAS NO. COMPOUND

CAS NO.	COMPOUND (ug/L or ug/	/Kg) UG/KG	Q ,
00.00.0	3-Nitroaniline	2000	ט
99-09-2	Acenaphthene	400	וט
83-32-9	-2 4-Dinitrotoluene	400	וט
121-14-2	2,4-Dinitrotoluene 2,4-Dinitrophenol	2000	ע
51-28-5	4 Nitrophonol	2000	יט
100-02-7	4-Nitrophenol	400	ן ט
132-64-9	Dibenzofuran	400	וט
84-66-2	Diethylphthalate	400	וט
7005-72-3	4-Chlorophenyl-phenylether_	400	ט
86-73-7	Fluorene	2000	וט
100-01-6	4-Nitroaniline	2000	υ
534-52-1	4,6-Dinitro-2-methylphenol	400	ΰ
86-30-6	N-Nitrosodiphenylamine (1)	400	Ü
101-55-3	4-BromophenyIphenyIether	400	Ü
118-74-1	Hexachlorobenzene	2000	Ü
87-86-5	Pentachlorophenol	400	Ü
95-01-8	Phenanthrene	400	Ü
120-12-7	Anthracene		ŭ
1 84-74-2	Di-n-butyiphtharate	400	ŭ
206-44-0	Fluoranthene	400	ช
129-00-0	Pvrene	400	
05 60-7	Butylbenzvlphthalate	400	U
91-94-1	3.3'-Dichlorobenzidine	800	וט
56-55-3	3,3'-Dichlorobenzidine Benzo(a)anthracene	400	וט
1 010 01 0	Chriicana	400	U
117-01-7	bis(2-Ethylhexyl)phthalate	400	ַּט
117-01-7	Di-n-octylphthalate	400	U
117-64-0	Benzo(b)fluoranthene	400	ַ
205-99-2	Benzo(k)fluoranthene	400	ע
207-08-9	Benzo(x)ruche	400	ט
50-32-8	Benzo(a)pyrene	400	ע
193-39-5	Indeno(1,2,3-cd)pyrene	400	ַ ט
53-70-3	Dibenz(a,h)anthracene	400	וט
191-24-2	Benzo(g,h,i)perylene	400	U
110-86-1	Pyridine	-	_
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09SB106

b Name: SWL-TULSA

Contract: FT.HOOD

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.11

Lab File ID:

M5117.D

Sample wt/vol:

Lab Code: SWOK

30.0 (g/mL) G

dec.

Level: (low/med)

Date Received: 03/07/97

% Moisture: not dec. 18

Date Extracted: 03/07/97

LOW

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CONCENTRATION UNITS:

Q

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

95-9403-----1,2,4,5-Tetrachlorobenzene_

400

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U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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Lab Name: SOUTHWEST I	LAB OF OK	Con	ntract: SA	ic	74311	
Lab Code: SWOK	Case No.:	28743	SAS No.:	Lab Sample	SDG No.: ID: 287	
Level (low/med): % Solids:	LOW _81.6			Date Recei		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					 ,
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	3.0	-	*	P
7440-39-3	Barium	50.0	-		P-
7440-43-9	Cadmium	0.10	B		P-
7440-43-3	Chromium	11.5	ادا	EN*	P_
		6.9	-	*_	P-
7439-92-1	Lead	0.04	ਹ	— <u>"</u> —	ĀŪ
7439-97-6	Mercury			WN	
	Selenium_	1.3	U	w _{IM}	F_
7440-22-4	Silver	0.21	ט		P_
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Lab Name: SWL-TULSA Contract: FT. HOOD PH

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23755.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 15 Date Analyzed: 03/12/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

74-87-3CHLOROMETHANE	6	ט
74-83-9BROMOMETHANE	6	וֹט
75-01-4VINYL CHLORIDE	6	ט
75-00-3CHLOROETHANE	6	<u>ט</u>
75-09-2METHYLENE CHLORIDE	6	J
67-64-1ACETONE	11	Ĭ
75-35-41 1-DICHLOROETHENE	6	
75-34-31 1-DICHLOROETHANE	6	ŭ
67-66-3CHLOROFORM	6	Ü
107-06-21 2-DICHLOROETHANE	6	וֹט
78-93-32-BUTANONE	6	ŭ
71-55-61 1 1-TRICHLOROETHANE	6	υ
56-23-5CARBON TETRACHLORIDE	6	ŭ
75-27-4BROMODICHLOROMETHANE	6	ŭ
75 27 1	6	ŭ
	6	Ü
79-01-6TRICHLOROETHENE	1	וט
124-48-1DIBROMOCHLOROMETHANE	6	וט
79-00-51 1 2-TRICHLOROETHANE	6	Ü
71-43-2BENZENE	6	
75-25-2BROMOFORM	6	ū
108-10-14-METHYL-2-PENTANONE	6	ש
591-78-62-HEXANONE	6	ַ
127-18-4TETRACHLOROETHENE	6	ַ
108-88-3TOLUENE	6	ע
79-34-51 1 2 2-TETRACHLOROETHANE	6	U
108-90-7CHLOROBENZENE	6	U
100-41-4ETHYL BENZENE	[6	U
100-42-5STYRENE	6	U
156-59-2cis-1 2-DICHLOROETHENE	6	U
156-60-5trans-1 2-DICHLOROETHENE	6	יט
13-302-07m,p-XYLENES	6	ש
95-47-6O-XYLENE	6	U
106-93-41 2-DIBROMOETHANE	6	וט
630-20-61 1 1 2-TETRACHLOROETHANE	6	ט
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

09SB107

Lab Name: SWL-TULSA Contract: FT. HOOD PH

Case No.: SAIC

Lab Code: SWOK

SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23755.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 15 Date Analyzed: 03/12/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(49/11 01	 	× .
06 18 4	1 2 3-TRICHLOROPROPA	NE	6	IJ
96-18-4	DICHLORODIFLUOROMETH		6	ŭΙ
75-71-8	TRICHLOROFLUOROMETHA	NE	6	וֹט
	DIBROMOMETHANE	···	6	Ü
74-95-3	1 2-DIBROMO -3-CHLORC	PROPANE	6	Ŭ
100 06 1	BROMOBENZENE	- LICOLIAND	6	ŭ
	BROMOBENZENE n-BUTYLBENZENE		6	ŭ
104-51-8	tert-BUTYLBENZ <u>ENE</u>		6	Ŭ
78-06-6	sec-BUTYLBENZENE		6	Ü
135-98-8	2-CHLOROTOLUENE		6	ŭ
106 42 4	4-CHLOROTOLUENE		6	ΰl
106-43-4	1 2-DICHLOROBENZENE_		6	וט
95-50-1	1 3-DICHLOROBENZENE_		6	υl
106-46-7			6	Ŭ
142-28-9			6	Ū
594-20-7			6	Ŭ
			6	Ü
563-58-6	HEXACHLOROBUTADIENE		6	Ü
87-68-3	TCODDODY DENZENE		6	Ŭ
98-82-8	ISOPROPYLBENZENE		6	ΰl
99-87-6	p-ISOPROPYLTOLUENE_ NAPHTHALENE		6	Ŭ
91-20-3	n-PROPYLBENZENE		6	υ
103-65-1	1 2 3-TRICHLOROBENZE	ENE	6	ŭ
8/-61-6	1 2 4 TRICHLOROBENZI	- NE	6	וט
120-82-1	1 2 4-TRICHLOROBENZE	- NE	6	ŭ
95-63-6	1 2 4-TRIMETHYLBENZI	- NE	6	Ü
108-67-8	1 3 5-TRIMETHYLBENZE		6	ŭΙ
14-97-5	BROMOCHLOROMETHANE_		٩١	٦
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09SB107

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Contract: FT.HOOD b Name: SWL-TULSA

SDG No.: 28743 SAS No.: Case No.: SAIC Lab Code: SWOK

Lab Sample ID: 28743.12 Matrix: (soil/water) SOIL

Lab File ID: M5118.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 03/07/97 (low/med) LOW Level:

Date Extracted: 03/07/97 dec. % Moisture: not dec. 15

Date Analyzed: 03/12/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

208-96-8-----Acenaphthylene

606-20-2----2,6-Dinitrotoluene

Dilution Factor: 1.0 pH: 8.3 (Y/N) N GPC Cleanup:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG COMPOUND CAS NO. U 390 108-95-2----Phenol U 111-44-4-----bis(2-Chloroethyl)ether_ 390 U 390 U 390 U 390 106-46-7----1,4-Dichlorobenzene_ U 390 100-51-6-----Benzyl alcohol U 390 95-50-1----1,2-Dichlorobenzene U 390 95-48-7----2-Methylphenol 390 U 108-60-1-----bis(2-Chloroisopropyl)ether U 390 106-44-5----4-Methylphenol U 390 621-64-7----N-Nitroso-di-n-propylamine_ U 390 67-72-1-----Hexachloroethane U 390 98-95-3----Nitrobenzene 390 U 78-59-1-----Isophorone U 390 88-75-5----2-Nitrophenol U 390 105-67-9----2,4-Dimethylphenol U 1900 65-85-0-----Benzoic Acid U 390 111-91-1-----bis(2-Chloroethoxy)methane U 390 120-83-2----2,4-Dichlorophenol U 120-82-1----1,2,4-Trichlorobenzene_ 390 U 390 91-20-3----Naphthalene U 390 106-47-8-----4-Chloroaniline U 390 87-68-3-----Hexachlorobutadiene U 390 59-50-7----4-Chloro-3-methylphenol U 390 91-57-6----2-Methylnaphthalene U 390 77-47-4-----Hexachlorocyclopentadiene_88-06-2----2,4,6-Trichlorophenol____ U 390 U 1900 95-95-4----2,4,5-Trichlorophenol_ U 390 91-58-7----2-Chloronaphthalene_ U 1900 88-74-4----2-Nitroaniline U 390 131-11-3-----Dimethylphthalate U 390

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390

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB107

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Contract: FT.HOOD Tob Name: SWL-TULSA

SDG No.: 28743 SAS No.: Case No.: SAIC шаb Code: SWOK

Lab Sample ID: 28743.12

Matrix: (soil/water) SOIL Lab File ID: M5118.D 30.0 (g/mL) G

Sample wt/vol: Date Received: 03/07/97 LOW (low/med) Level:

Date Extracted: 03/07/97

dec. % Moisture: not dec. 15

Date Analyzed: 03/12/97 Extraction: (SepF/Cont/Sonc) SONC

1000(uL) Concentrated Extract Volume:

Dilution Factor: 1.0 pH: 8.3 (Y/N) N GPC Cleanup:

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG ' COMPOUND

Q CAS NO. 1900 99-09-2----3-Nitroaniline 390 83-32-9-----Acenaphthene 390 121-14-2----2,4-Dinitrotoluene_ 1900 51-28-5-----2,4-Dinitrophenol_ 1900

U 100-02-7-----4-Nitrophenol U 390 132-64-9-----Dibenzofuran U 390 84-66-2-----Diethylphthalate U 7005-72-3----4-Chlorophenyl-phenylether_ 390 U 390 86-73-7----Fluorene 1900 U 100-01-6-----4-Nitroaniline U 534-52-1----4,6-Dinitro-2-methylphenol 1900 U 390 86-30-6----N-Nitrosodiphenylamine_(1)_ U 390 101-55-3-----4-Bromophenylphenylether_ U 390 118-74-1-----Hexachlorobenzene U 1900 87-86-5-----Pentachlorophenol U 390 85-01-8-----Phenanthrene U 390 120-12-7-----Anthracene U 390 84-74-2-----Di-n-butylphthalate____ 390 U 206-44-0-----Fluoranthene 390 U 129-00-0-----Pyrene 390 U 85-68-7-----Butylbenzylphthalate 91-94-1----3,3'-Dichlorobenzidine U 780 U 390 56-55-3-----Benzo(a)anthracene U 390 218-01-9-----Chrysene U 390 117-81-7-----bis(2-Ethylhexyl)phthalate_ U 390 117-84-0----Di-n-octylphthalate U 390 205-99-2----Benzo(b)fluoranthene U 390 207-08-9----Benzo(k)fluoranthene_ U 390 50-32-8-----Benzo(a)pyrene U 390 193-39-5----Indeno(1,2,3-cd)pyrene_ U

53-70-3-----Dibenz(a,h)anthracene__

191-24-2----Benzo(g,h,i)perylene_

110-86-1-----Pyridine

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U

390

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09SB107

ab Name: SWL-TULSA

Contract: FT.HOOD

_ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.12

Lab File ID:

M5118.D

Sample wt/vol:

30.0 (g/mL) G

dec.

(low/med) LOW Level:

Date Received: 03/07/97

% Moisture: not dec.

Date Extracted: 03/07/97

Extraction: (SepF/Cont/Sonc) SONC

15

Date Analyzed: 03/12/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene_

390

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U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

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EPA	SAM	PLE	NO

Lab Name: SOUTHWEST	ו אם הב הצ	Co	ntract: SA	TC	74312	
Lab Name: Southwest 1						
Lab Code: SWOK	Case No.:	28743	SAS No.:		SDG No.:	
Matrix (soil/water):	SOIL			Lab Sample		
Level (low/med):	LOW _		1	Date Recei	.ved: 03/	07/97
% Solids:	-84.7					

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	М
7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	Arsenic_Barium_Cadmium_Chromium_Lead_Mercury_Selenium_Silver_	4.2 11.2 0.06 6.6 7.0 0.04 1.3 0.20	- - - - -	* _EN*_ _E*_ _N_	P_ P_ P_ P_ AV F_ P_
			- - - -		
			 - - -		

	Before: After:	BROWN	Clarity Before: Clarity After:	Texture: Artifacts:	MEDIUM
Commer CL]	nts: IENT_ID_=	_09SB107			
			FORM T - IN	IL	<u></u> M02.1

09SB108

Lab Name: SWL-TULSA Contract: FT. HOOD PH

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23756.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 7 Date Analyzed: 03/12/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

74-87-3	55555555555555555555555555555555555555	
100-41-4ETHYL BENZENE 100-42-5STYRENE	5 5	U U

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

09SB108

Lab Name: SWL-TULSA Contract: FT. HOOD PH

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23756.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 7 Date Analyzed: 03/12/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

96-18-41 2 3-TRICHLOROPROPANE	5	Ŭ
75-71-8DICHLORODIFLUOROMETHANE	5	ַ
75-69-4TRICHLOROFLUOROMETHANE	5	U
74-95-3DIBROMOMETHANE	5	U
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	ט
108-86-1BROMOBENZENE	5	ן ט
104-51-8n-BUTYLBENZENE	5	ן ט
98-06-6tert-BUTYLBENZENE	5	ן ט
135-98-8sec-BUTYLBENZENE	5	ן ט
95-49-82-CHLOROTOLUENE	5	ט
106-43-44-CHLOROTOLUENE	5	ן ט
95-50-11 2-DICHLOROBENZENE	5	ש
541-73-11 3-DICHLOROBENZENE	5	ן ט
106-46-71 4-DICHLOROBENZENE	5	ט
142-28-91 3-DICHLOROPROPANE	5	ן ט
594-20-72 2-DICHLOROPROPANE	5	U
563-58-61 1-DICHLOROPROPENE	5	ש
87-68-3HEXACHLOROBUTADIENE	5	ט
98-82-8ISOPROPYLBENZENE	5	U
99-87-6p-ISOPROPYLTOLUENE	5	ן ט
91-20-3NAPHTHALENE	5	ט
103-65-1n-PROPYLBENZENE	5	ן ט
87-61-61 2 3-TRICHLOROBENZENE	5	ן ט
120-82-11 2 4-TRICHLOROBENZENE	5 5	ן ט
95-63-61 2 4-TRIMETHYLBENZENE	5	ש
108-67-81 3 5-TRIMETHYLBENZENE	5	ט
74-97-5BROMOCHLOROMETHANE	5	U
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB108

Contract: FT.HOOD b Name: SWL-TULSA

SDG No.: 28743 SAS No.: Lab Code: SWOK Case No.: SAIC

Lab Sample ID: 28743.13 Matrix: (soil/water) SOIL

Lab File ID: M5119.D 30.0 (g/mL) GSample wt/vol:

Date Received: 03/07/97 (low/med) LOW Level:

Date Extracted: 03/07/97 % Moisture: not dec. 7 dec.

Date Analyzed: 03/12/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 pH: 8.2

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

108-95-2	CAS NO.	(),		
111-44-4	108-95-2	Phenol		ט
95-57-82-Chlorophenol 350 541-73-11, 3-Dichlorobenzene 350 106-46-71, 4-Dichlorobenzene 350 100-51-6Benzyl alcohol 350 95-50-11, 2-Dichlorobenzene 350 350 95-548-72-Methylphenol 350 108-60-1bis (2-Chloroisopropyl) ether 350 106-44-54-Methylphenol 350 621-64-7N-Nitroso-di-n-propylamine 350 621-64-7Nitroso-di-n-propylamine 350	111-44-4	bis(2-Chloroethyl)ether		U
106-46-71, 4-Dichlorobenzene 350 100-51-6Benzyl alcohol 350 95-50-11, 2-Dichlorobenzene 350 95-48-7	OF E7-0	2-Chlorophenol		U
100-51-6	541-73-1	1,3-Dichlorobenzene		ַ
100-51-6	106-46-7	1,4-Dichlorobenzene		U
95-50-11, 2-Dichlorobenzene 350 95-48-72-Methylphenol 350 108-60-1bis (2-Chloroisopropyl) ether 350 106-44-54-Methylphenol 350 621-64-7N-Nitroso-di-n-propylamine 350 67-72-1Hexachloroethane 350 98-95-3Nitrobenzene 350 78-59-1	1 100-51-6	Renzvi alconol		U
95-48-72-Methylphenol 350 108-60-1bis (2-Chloroisopropyl) ether 350 106-44-54-Methylphenol 350 350 67-72-1Hexachloroethane 350 8-95-3Nitrobenzene 350 350 88-95-3Isophorone 350	95-50-1	1,2-Dichlorobenzene		וַט
108-60-1bis(2-Chloroisopropy1)ether	1 05-48-7	2-Metnyidnenoi		ַע
106-44-54-Methylphenol 350 621-64-7N-Nitroso-di-n-propylamine 350 67-72-1Hexachloroethane 350 98-95-3Nitrobenzene 350 78-59-11sophorone 350	108-60-1	bis(2-Chloroisopropy1)ether_		U
621-64-7N-Nitroso-di-n-propylamine 350 67-72-1	106-11-5	4-Methylphenol		U
67-72-1	621-64-7	N-Nitroso-di-n-propylamine		ū
98-95-3Nitrobenzene	67-72-1	Hexachloroethane		ŭ
78-59-1	98-95-3	Nitrobenzene		וָיָי
88-75-52-Nitrophenol 350 105-67-92,4-Dimethylphenol 350 65-85-0Benzoic Acid 1700 111-91-1bis(2-Chloroethoxy)methane 350 120-83-22,4-Dichlorophenol 350 120-82-11,2,4-Trichlorobenzene 350 91-20-3Naphthalene 350 106-47-8Naphthalene 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-62-Methylnaphthalene 350 77-47-4	78-59-1	Isophorone		ַע
105-67-92,4-Dimethylphenol 1700 65-85-0Benzoic Acid 1700 111-91-1bis(2-Chloroethoxy)methane 350 120-83-22,4-Dichlorophenol 350 120-82-11,2,4-Trichlorobenzene 350 120-82-1Naphthalene 350 16-47-84-Chloroaniline 350 16-47-84-Chloroaniline 350 16-47-84-Chloro-3-methylphenol 350 16-57-64-Chloro-3-methylphenol 350 16-57-6	88-75-5	2-Nitrophenol		ŭ
65-85-0Benzoic Acid 111-91-1bis(2-Chloroethoxy)methane 120-83-22,4-Dichlorophenol 120-82-11,2,4-Trichlorobenzene 91-20-3Naphthalene 106-47-84-Chloroaniline 87-68-3Hexachlorobutadiene 59-50-74-Chloro-3-methylphenol 91-57-62-Methylnaphthalene 77-47-4Hexachlorocyclopentadiene 88-06-22,4,6-Trichlorophenol 95-95-42,4,5-Trichlorophenol 91-58-72-Chloronaphthalene 88-74-42-Nitroaniline 131-11-3	1 105-67-9	2,4-Dimethyiphenoi	. 1	ָּט
111-91-1bis(2-Chloroethoxy)methane 350 120-83-22,4-Dichlorophenol 350 120-82-11,2,4-Trichlorobenzene 350 91-20-3Naphthalene 350 106-47-8Naphthalene 350 87-68-3	65-85-0	Benzoic Acid	1	U
120-83-22,4-Dichlorophenol 350 120-82-11,2,4-Trichlorobenzene 350 91-20-3Naphthalene 350 106-47-84-Chloroaniline 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-62-Methylnaphthalene 350 77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 91-58-72,4,5-Trichlorophenol 1700 91-58-72-Nitroaniline 350 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	111-91-1	bis(2-Chloroethoxy)methane		Ŭ
120-82-11,2,4-Trichlorobenzene 350 91-20-3Naphthalene 350 106-47-84-Chloroaniline 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-62-Methylnaphthalene 350 77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	120-83-2	2,4-Dichlorophenol		Ŭ
91-20-3Naphthalene 350 106-47-84-Chloroaniline 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-6	120-82-1	1,2,4-Trichlorobenzene		Ŭ
106-47-84-Chloroaniline 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-62-Methylnaphthalene 350 77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-4Dimethylphthalate 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350	91-20-3	Naphthalene		Ŭ
87-68-3	106-47-8	4-Chloroaniline		U
59-50-74-Chloro-3-methylphenol 350 91-57-62-Methylnaphthalene 350 77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	87-68-3	Hexachlorobutadiene		U
91-57-62-Methylnaphthalene 77-47-4Hexachlorocyclopentadiene 88-06-22,4,6-Trichlorophenol 95-95-42,4,5-Trichlorophenol 91-58-72-Chloronaphthalene 88-74-42-Nitroaniline 131-11-3Dimethylphthalate 208-96-8Acenaphthylene	59-50-7	4-Chloro-3-methylphenol		Ŭ
77-47-4	91-57-6	2-Methylnaphthalene		U U
88-06-22,4,6-Trichlorophenol 1700 95-95-42,4,5-Trichlorophenol 350 91-58-72-Chloronaphthalene 1700 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	77-47-4	Hexachlorocyclopentadiene		ט
95-95-42,4,5-Trichlorophenol350 91-58-72-Chloronaphthalene350 88-74-42-Nitroaniline350 131-11-3Dimethylphthalate350 208-96-8Acenaphthylene 350	88-06-2	2.4.6-Trichlorophenol		1
91-58-72-Chloronaphthalene 88-74-42-Nitroaniline 131-11-3Dimethylphthalate 208-96-8Acenaphthylene	1 95-95-4	2,4,5-Trichlorophenol		
88-74-42-Nitroaniline 350 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	1 91-58-7	2-Chioronaphthaiene		1
131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	88-74-4	2-Nitroaniline		U U
208-96-8Acenaphthylene 350	131-11-3	Dimethylphthalate		ם ו
606-20-22,6-Dinitrotoluene	208-96-8	Acenaphthylene		l ü
	606-20-2	2,6-Dinitrotoluene	_ 350	"
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB108

Tob Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5119.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 7 dec. Date Extracted:03/07/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO. U 1700 99-09-2----3-Nitroaniline_ U 350 83-32-9----Acenaphthene U 350 121-14-2----2,4-Dinitrotoluene_ U 1700 51-28-5----2,4-Dinitrophenol_ U 1700 100-02-7----4-Nitrophenol U 350 132-64-9-----Dibenzofuran U 350 84-66-2-----Diethylphthalate U 7005-72-3----4-Chlorophenyl-phenylether_ 350 U 350 86-73-7-----Fluorene U 1700 100-01-6----4-Nitroaniline U 534-52-1-----4,6-Dinitro-2-methylphenol_ 1700 U 350 86-30-6----N-Nitrosodiphenylamine_(1)_ U 350 101-55-3----4-Bromophenylphenylether___ U 350 118-74-1-----Hexachlorobenzene U 1700 87-86-5----Pentachlorophenol U 350 85-01-8-----Phenanthrene U 350 120-12-7-----Anthracene U 84-74-2-----Di-n-butylphthalate 350 U 350 206-44-0----Fluoranthene U 350 129-00-0-----Pyrene U 350 85-68-7-----Butylbenzylphthalate U 710 91-94-1----3,3'-Dichlorobenzidine_ U 350 56-55-3-----Benzo(a)anthracene_ U 350 218-01-9-----Chrysene U 117-81-7-----bis(2-Ethylhexyl)phthalate_ 350 U 350 117-84-0-----Di-n-octylphthalate U 350 205-99-2----Benzo(b)fluoranthene U 207-08-9----Benzo(k)fluoranthene_ 350 U 350 50-32-8-----Benzo(a)pyrene 350 U 193-39-5----Indeno(1,2,3-cd)pyrene_ U 350 53-70-3-----Dibenz(a,h)anthracene_ U 350 191-24-2----Benzo(g,h,i)perylene_ U 350 110-86-1-----Pyridine_

09SB108

Contract: FT.HOOD b Name: SWL-TULSA

SDG No.: 28743 SAS No.: Case No.: SAIC Lab Code: SWOK

Lab Sample ID: 28743.13 Matrix: (soil/water) SOIL

Lab File ID: M5119.D 30.0 (g/mL) GSample wt/vol:

Date Received: 03/07/97 (low/med) LOW Level:

Date Extracted: 03/07/97 dec. % Moisture: not dec. 7

Date Analyzed: 03/12/97 Extraction: (SepF/Cont/Sonc) SONC

1000(uL) Concentrated Extract Volume:

Dilution Factor: 1.0 pH: 8.2 GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND

Q CAS NO.

95-9403-----1,2,4,5-Tetrachlorobenzene_ U 350

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE	NO.

I oh Nome : COURTINEER I AR OF O	74313 C Contract: SAIC
Lab Name: SOUTHWEST_LAB_OF_O	·
Lab Code: SWOK Case 1	No.: 28743 SAS No.: SDG No.: 28743A
Matrix (soil/water): SOIL_	Lab Sample ID: 28743.13
Level (low/med): LOW	Date Received: 03/07/97

Level (low/med): LOW -% Solids: _92.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	М
7440-38-2	Arsenic	4.7	-	*	P
7440-38-2	Barium	2.6	-		P_
7440-33-3	Cadmium	0.05	ਹ		P
7440-43-3	Chromium	1.9	١	EN*	P-
	Lead	3.3	-	-E*-	P-
7439-92-1	Mercury	0.04	ਹ		ΑV
7439-97-6	Selenium	1.2	บ	WN	F
7782-49-2	Silver	0.18	Ū		P-
7440-22-4	strage —	0.18	٦		-1
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	Before: After:	BROWN	Clarity Clarity		 Texture: Artifacts:	MEDIUN	1
Commen CLI	ts: ENT_ID_=_	_09SB108					
			FOR	M T - IN	II	<u>M02.</u> 1	

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB109

SDG No.: 28753

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC SAS No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.02

Sample wt/vol: 5.0 (q/mL) GLab File ID: C23778.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 18 Date Analyzed: 03/14/97

Column: (pack/cap) CAP Dilution Factor: 1.0

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3------CHLOROMETHANE 6 U 74-83-9-----BROMOMETHANE 6 U 75-01-4-----VINYL CHLORIDE 6 U 75-00-3------CHLOROETHANE 6 U 75-09-2-----METHYLENE CHLORIDE 6 U 67-64-1-----ACETONE 6 U 75-35-4-----1 1-DICHLOROETHENE U 6 75-34-3-----1 1-DICHLOROETHANE U 6 67-66-3-----CHLOROFORM U 6 107-06-2----1 2-DICHLOROETHANE U 6 78-93-3----2-BUTANONE 6 U 71-55-6-----1 1 1-TRICHLOROETHANE 6 U 56-23-5-----CARBON TETRACHLORIDE U 6 75-27-4-----BROMODICHLOROMETHANE 6 U 78-87-5-----1 2-DICHLOROPROPANE U 6 79-01-6----TRICHLOROETHENE 6 U 124-48-1-----DIBROMOCHLOROMETHANE 6 U 79-00-5-----1 1 2-TRICHLOROETHANE 6 6 U 71-43-2-----BENZENE U 75-25-2-----BROMOFORM 6 U 108-10-1----4-METHYL-2-PENTANONE 6 U 591-78-6----2-HEXANONE 6 U 127-18-4-----TETRACHLOROETHENE 6 U 108-88-3-----TOLUENE 6 U 79-34-5-----1 1 2 2-TETRACHLOROETHANE 6 U 108-90-7-----CHLOROBENZENE 6 U 100-41-4----ETHYL BENZENE 6 U 100-42-5----STYRENE 6 U 156-59-2----cis-1 2-DICHLOROETHENE 6 U 156-60-5-----trans-1 2-DICHLOROETHENE 6 U 13-302-07----m,p-XYLENES_ 2 J 95-47-6----O-XYLENE 6 U 106-93-4-----1 2-DIBROMOETHANE U 6 630-20-6-----1 1 1 2-TETRACHLOROETHANE U

Lab Name: SWL-TULSA Contract: FT HOOD

0**9S**B109

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23778.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 18 Date Analyzed: 03/14/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB109

Contract: FT. HOOD Name: SWL-TULSA

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Lab Sample ID: 28753.02 Matrix: (soil/water) SOIL

Lab File ID: P11537.D Sample wt/vol: 30.0 (g/mL) G

Date Received: 03/08/97 Level: (low/med) LOW

Date Extracted: 03/10/97 18 dec. % Moisture: not dec.

Date Analyzed: 03/11/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 8.6

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

CAS NO.	COMPOUND (ag/ 1 of ag/		×
108-95-2	Phenol	400	บ
111-44-4	bis(2-Chloroethyl)ether	400	ע
95-57-8	2-Chlorophenol	400	ע
541-73-1	1,3-Dichlorobenzene	400	ע
106-46-7	1,4-Dichlorobenzene	400	ע
100-51-6	1,4-Dichlorobenzene	400	ַ ד
95-50-1	1,2-Dichlorobenzene	400	ן ט
95-48-7	2-Methylphenol	400	ן ט
108-60-1	bis(2-Chloroisopropyl)ether_	400	ע
106-44-5	4-Methylphenol	400	ש
621-64-7	N-Nitroso-di-n-propylamine	400	ַ
67-72-1	Hexachloroethane	400	ע
98-95-3	Nitrobenzene	400	ט
	Isophorone	400	ט
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	ប
120-82-1	1,2,4-Trichlorobenzene	400	U
	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	บ
88-06-2	2,4,6-Trichlorophenol	400	บ
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	400	ט
	2-Nitroaniline	2000	ט
	Dimethylphthalate	400	ט
208-96-8	Acenaphthylene	400	ט
606-20-2	2,6-Dinitrotoluene	400	U
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB109 Contract: FT. HOOD o Name: SWL-TULSA

SDG No.: 28753 SAS No.: Case No.: SAIC Lab Code: SWOK

Lab Sample ID: 28753.02

Matrix: (soil/water) SOIL

Lab File ID: P11537.D 30.0 (g/mL) GSample wt/vol:

Date Received: 03/08/97 (low/med) LOW Level:

Date Extracted: 03/10/97 dec. % Moisture: not dec. 18

Date Analyzed: 03/11/97 SONC (SepF/Cont/Sonc) Extraction:

Concentrated Extract Volume: 1000(uL)

110-86-1-----Pyridine

Dilution Factor: 1.0 pH: 8.6 (Y/N) N GPC Cleanup:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND CAS NO.

2000 U 99-09-2-----3-Nitroaniline U 400 83-32-9-----Acenaphthene 400 U 121-14-2----2,4-Dinitrotoluene U 2000 51-28-5-----2,4-Dinitrophenol U 2000 100-02-7-----4-Nitrophenol 132-64-9-----Dibenzofuran_ U 400 U 400 84-66-2----Diethylphthalate U 400 7005-72-3----4-Chlorophenyl-phenylether U 400 86-73-7-----Fluorene U 2000 100-01-6----4-Nitroaniline 2000 U 534-52-1----4,6-Dinitro-2-methylphenol 400 U 86-30-6----N-Nitrosodiphenylamine_(1)_ 400 U 101-55-3-----4-Bromophenylphenylether_ U 400 118-74-1-----Hexachlorobenzene U 2000 87-86-5-----Pentachlorophenol U 400 85-01-8-----Phenanthrene U 400 120-12-7-----Anthracene U 400 84-74-2----Di-n-butylphthalate_ U 400 206-44-0----Fluoranthene U 400 129-00-0-----Pyrene U 400 85-68-7-----Butylbenzylphthalate U 91-94-1-----3,3'-Dichlorobenzidine 800 400 U 56-55-3-----Benzo(a)anthracene 400 U 218-01-9-----Chrysene U 117-81-7-----bis(2-Ethylhexyl)phthalate_ 400 U 400 117-84-0-----Di-n-octylphthalate 205-99-2----Benzo(b)fluoranthene U 400 U 400 207-08-9-----Benzo(k)fluoranthene_ U 400 50-32-8----Benzo(a)pyrene U 400 193-39-5----Indeno(1,2,3-cd)pyrene_ U 400 53-70-3-----Dibenz(a,h)anthracene_ U 400 191-24-2----Benzo(g,h,i)perylene_ U 400

09SB109

Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.02

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: P11537.D

Level: (low/med)

Date Received: 03/08/97

% Moisture: not dec. 18

dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

LOW

Date Analyzed: 03/11/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene_

400

U

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

	03115	
P. D.V	CAMDL	P. VILI
LIFA	SAMPL	E 1110

		INORGANIC A	ANALYSES DATA S	SHEET	75302	
Lab Name: SOUTH Lab Code: SWOK Matrix (soil/wa Level (low/med) % Solids:		se No.: _ 0		: Lab Samp Date Rec	SDG No.: 2 ple ID: 28753 eived: 03/08	3.02
Cor	ncentration	Units (ug	/L or mg/kg dry	y weight)	: MG/KG	
	CAS No.	Analyte	Concentration	C Q	М	
	7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-97-6 7782-49-2 7440-22-4	Arsenic_Barium_Cadmium_Chromium_Lead_Mercury_Selenium_Silver_	2.7 36.0 0.06 5.8 5.0 0.04 1.3 0.21	ŪE ŪW	P_ P_ P_ P_ AV F_ P	
Color Before: Color After: Comments:	BROWN	Clari	ty Before: CLE	AR_	Texture:	MEDIUM
CLIENT_ID_=	_0 9S B109					
			FORM T - TN		TT.	M02.1

Lab Name: SWL-TULSA Contract: FT HOOD

09SB110

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23761.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 24 Date Analyzed: 03/12/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3------CHLOROMETHANE 6 U 74-83-9-----BROMOMETHANE 6 U 75-01-4-----VINYL CHLORIDE U 75-00-3------CHLOROETHANE U 75-09-2-----METHYLENE CHLORIDE 8 67-64-1-----ACETONE 29 75-35-4-----1 1-DICHLOROETHENE Ū 6 75-34-3-----1 1-DICHLOROETHANE U 6 67-66-3-----CHLOROFORM U 6 107-06-2----1 2-DICHLOROETHANE U 6 78-93-3----2-BUTANONE 6 U 71-55-6-----1 1 1-TRICHLOROETHANE 6 U 56-23-5-----CARBON TETRACHLORIDE 6 U 75-27-4-----BROMODICHLOROMETHANE 6 U 78-87-5-----1 2-DICHLOROPROPANE 6 U 79-01-6-----TRICHLOROETHENE 6 U 124-48-1-----DIBROMOCHLOROMETHANE U 6 79-00-5----- 1 2-TRICHLOROETHANE U 6 71-43-2----BENZENE 6 U 75-25-2-----BROMOFORM U 6 108-10-1----4-METHYL-2-PENTANONE 6 U 591-78-6----2-HEXANONE 6 U 127-18-4----TETRACHLOROETHENE 6 U 108-88-3-----TOLUENE 6 U 79-34-5-----1 1 2 2-TETRACHLOROETHANE 6 U 108-90-7-----CHLOROBENZENE 6 U 100-41-4----ETHYL BENZENE 6 U 100-42-5----STYRENE 6 U 156-59-2----cis-1 2-DICHLOROETHENE 6 U 156-60-5-----trans-1 2-DICHLOROETHENE U 6 13-302-07----m, p-XYLENES U 6 95-47-6------XYLENE U 6 106-93-4-----1 2-DIBROMOETHANE U 6 630-20-6-----1 1 1 2-TETRACHLOROETHANE U 6

Lab Name: SWL-TULSA Contract: FT HOOD 09SB110

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23761.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 24 Date Analyzed: 03/12/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

96-18-4			· · · · · · · · · · · · · · · · · · ·
75-71-8DICHLORODIFLUOROMETHANE	96-18-41 2 3-TRICHLOROPROPANE	6	7.7
75-69-4TRICHLOROFLUOROMETHANE 6 U 74-95-3DIBROMOMETHANE 6 U 96-12-81 2-DIBROMO-3-CHLOROPROPANE 6 U 108-86-1BROMOBENZENE 6 U 104-51-8BROMOBENZENE 6 U 98-06-6		· · · · · · · · · · · · · · · · · · ·	- 1
74-95-3DIBROMOMETHANE 6 U 96-12-81 2-DIBROMO-3-CHLOROPROPANE 6 U 108-86-1BROMOBENZENE 6 U 104-51-8n-BUTYLBENZENE 6 U 98-06-6	i		
96-12-8			
108-86-1BROMOBENZENE			
104-51-8n-BUTYLBENZENE 6	I I DIBRORO S CHILOROTANIL		
98-06-6tert-BUTYLBENZENE	Dito::0DBHBBHB	6	
135-98-8sec-BUTYLBENZENE 6			
95-49-82-CHLOROTOLUENE 6 U 106-43-44-CHLOROTOLUENE 6 U 95-50-11 2-DICHLOROBENZENE 6 U 541-73-11 3-DICHLOROBENZENE 6 U 106-46-71 4-DICHLOROBENZENE 6 U 142-28-91 3-DICHLOROPROPANE 6 U 594-20-72 2-DICHLOROPROPANE 6 U 87-68-3HEXACHLOROBUTADIENE 6 U 98-82-8ISOPROPYLBENZENE 6 U 99-87-6NAPHTHALENE 6 U 91-20-3NAPHTHALENE 6 U 103-65-1			
106-43-44-CHLOROTOLUENE 6 U 95-50-11 2-DICHLOROBENZENE 6 U 541-73-11 3-DICHLOROBENZENE 6 U 106-46-71 4-DICHLOROBENZENE 6 U 142-28-91 3-DICHLOROPROPANE 6 U 594-20-72 2-DICHLOROPROPANE 6 U 563-58-61 1-DICHLOROPROPENE 6 U 87-68-3HEXACHLOROBUTADIENE 6 U 98-82-8ISOPROPYLBENZENE 6 U 99-87-6			
95-50-1			
541-73-11 3-DICHLOROBENZENE 6 U 106-46-71 4-DICHLOROBENZENE 6 U 142-28-91 3-DICHLOROPROPANE 6 U 594-20-72 2-DICHLOROPROPANE 6 U 563-58-61 1-DICHLOROPROPENE 6 U 87-68-3HEXACHLOROBUTADIENE 6 U 98-82-8ISOPROPYLBENZENE 6 U 99-87-6			
106-46-71 4-DICHLOROBENZENE 6 U 142-28-91 3-DICHLOROPROPANE 6 U 594-20-72 2-DICHLOROPROPANE 6 U 563-58-61 1-DICHLOROPROPENE 6 U 87-68-3HEXACHLOROBUTADIENE 6 U 98-82-8ISOPROPYLBENZENE 6 U 99-87-6	541-73-11 3-DICHLOROBENZENE		
142-28-91 3-DICHLOROPROPANE 6 U 594-20-72 2-DICHLOROPROPANE 6 U 563-58-61 1-DICHLOROPROPENE 6 U 87-68-3HEXACHLOROBUTADIENE 6 U 98-82-8ISOPROPYLBENZENE 6 U 99-87-6	106-46-71 4-DICHLOROBENZENE		
594-20-72 2-DICHLOROPROPANE 6 U 563-58-61 1-DICHLOROPROPENE 6 U 87-68-3HEXACHLOROBUTADIENE 6 U 98-82-8ISOPROPYLBENZENE 6 U 99-87-6	142-28-91 3-DICHLOROPROPANE		
563-58-61 1-DICHLOROPROPENE 6 U 87-68-3HEXACHLOROBUTADIENE 6 U 98-82-8ISOPROPYLBENZENE 6 U 99-87-6	594-20-72 2-DICHLOROPROPANE		
87-68-3HEXACHLOROBUTADIENE 6 U 98-82-8ISOPROPYLBENZENE 6 U 99-87-6	563-58-61 1-DICHLOROPROPENE		
98-82-8ISOPROPYLBENZENE 6 U 99-87-6	87-68-3HEXACHLOROBUTADIENE		
99-87-6	98-82-8ISOPROPYLBENZENE		
91-20-3NAPHTHALENE 6 U 103-65-1	99-87-6p-ISOPROPYLTOLUENE		
103-65-1n-PROPYLBENZENE 6			
87-61-61 2 3-TRICHLOROBENZENE 6 U 120-82-11 2 4-TRICHLOROBENZENE 6 U 95-63-61 2 4-TRIMETHYLBENZENE 6 U 108-67-81 3 5-TRIMETHYLBENZENE 6 U	103-65-1n-PROPYLBENZENE		
120-82-11 2 4-TRICHLOROBENZENE			
95-63-6	120-82-11 2 4-TRICHLOROBENZENE		
108-67-81 3 5-TRIMETHYLBENZENE 6 U	95-63-61 2 4-TRIMETHYLBENZENE		
74-97-5BROMOCHLOROMETHANE 6			
	74-97-5BROMOCHLOROMETHANE		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB110

D Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11538.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 23 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND (ug/L or ug/	'Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethy1)ether	430	ַ
95-57-8	2-Chlorophenol	430	ַ
1 541 72-1	1 3-Dichlorobenzene	430	ש
106-46-7	Benzyl alcohol	430	U
100-51-6	Benzyl alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	ַ
95-48-7	2-Methylphenol	430	ַ
108-60-1	bis(2-Chloroisopropy1)etner_	430	ַ
106-44-5	4-Methvlphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	ū
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	שׁ
78-59-1	Isophorone	430	ַ
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-95-0	Benzoic Acid	2100	ū
111-91-1	bis(2-Chloroethoxy)methane	430	ū
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
1 91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	ַ
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	וַט
01-57-6	2-Methvlnaphthalene	430	ַ
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	ַ
95-95-4	2,4,5-Trichlorophenol	2100	וט
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthvlene	430	ש
606-20-2	2,6-Dinitrotoluene	430	ן די
000 20 2			

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB110

Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11538.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 23 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO. 2100 99-09-2----3-Nitroaniline 430 U 83-32-9-----Acenaphthene 430 U 121-14-2----2,4-Dinitrotoluene 2100 U 51-28-5----2,4-Dinitrophenol_ 2100 U 100-02-7----4-Nitrophenol 430 U 132-64-9-----Dibenzofuran 430 U 84-66-2-----Diethylphthalate 7005-72-3----4-Chlorophenyl-phenylether U 430 U 430 86-73-7-----Fluorene U 2100 100-01-6----4-Nitroaniline U 2100 534-52-1----4,6-Dinitro-2-methylphenol_ 430 U 86-30-6----N-Nitrosodiphenylamine_(1)_ U 430 101-55-3----4-Bromophenylphenylether_ U 430 118-74-1-----Hexachlorobenzene 2100 U 87-86-5----Pentachlorophenol 430 U 85-01-8-----Phenanthrene 430 U 120-12-7-----Anthracene 430 U 84-74-2----Di-n-butylphthalate___ U 430 206-44-0----Fluoranthene_ U 430 129-00-0-----Pyrene U 430 85-68-7-----Butylbenzylphthalate 91-94-1-----3,3 -Dichlorobenzidine U 860 430 U 56-55-3----Benzo(a)anthracene U 430 218-01-9-----Chrysene U 117-81-7-----bis(2-Ethylhexyl)phthalate_ 430 U 430 117-84-0----Di-n-octylphthalate U 430 205-99-2----Benzo(b)fluoranthene U 430 207-08-9-----Benzo(k)fluoranthene_ 430 U 50-32-8----Benzo(a)pyrene U 430 193-39-5----Indeno(1,2,3-cd)pyrene_ U 53-70-3-----Dibenz(a,h)anthracene 430 U 430 191-24-2----Benzo(g,h,i)perylene___ U 430 110-86-1-----Pyridine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB110

o Name: SWL-TULSA

Lab Code: SWOK

Contract: FT. HOOD

SAS No.:

Case No.: SAIC

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.03

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11538.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 23 Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.4

dec.

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-9403----1,2,4,5-Tetrachlorobenzene

430

U

U.S. EPA - CLP

1 TNORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO

	INORGANIC A	NALYSES DATA SHEET	
Lab Name: SOUTHWEST_1 Lab Code: SWOK Matrix (soil/water): Level (low/med):	LAB_OF_OK Case No.: SOIL_ LOW	Contract: SAIC SAS No.: Lab Samp	75303 SDG No.: 28753A le ID: 28753.03 eived: 03/08/97
% Solids:	76 .5		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	4.0	-		P
7440-39-3	Barium	16.2	-		P_
7440-33-3	Cadmium	0.07	ਹ		P_
7440-43-9	Chromium	9.2	٦	E	- P
	Lead	5.9	-		P-
7439-92-1		0.04	ਹ		ĀV
7439-97-6	Mercury	1.4	บ		F
7782-49-2	Selenium_	0.22	ט	~	P P
7440-22-4	Silver	0.22	U		F_
			 —		 —
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Color Befor Color After		Clarity Before: Clarity After:	CLEAR_	Texture: Artifacts:	MEDIUM
CLIENT_	ID_=_09SB110				
		FORM T - IN		IL	M02.1

09SB111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23762.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 20 Date Analyzed: 03/12/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

		J		*
74-87-3			6	Ŭ
74-83-9BROMOMETHANE 75-01-4VINYL CHLORIDE			6	U
75-00-3CHLOROETHANE			6	Ŭ
75-09-2METHYLENE CHLORIDE			6	ū
67-64-1ACETONE			4	J
75-35-41 1-DICHLOROETHENE			12	**
75-34-31 1-DICHLOROETHANE			6	Ū
67-66-3CHLOROFORM			6	บ บ
107-06-21 2-DICHLOROETHANE			6	บ
78-93-32-BUTANONE			6	บ
71-55-61 1 1-TRICHLOROETHANE			6	บ
56-23-5CARBON TETRACHLORIDE			6	บ
75-27-4BROMODICHLOROMETHANE			6	บ
78-87-51 2-DICHLOROPROPANE	_		6	Ŭ
79-01-6TRICHLOROETHENE			6	Ü
124-48-1DIBROMOCHLOROMETHANE			6	Ŭ
79-00-51 1 2-TRICHLOROETHANE			6	Ŭ
71-43-2BENZENE			6	Ŭ
75-25-2BROMOFORM			6	Ŭ
108-10-14-METHYL-2-PENTANONE			6	Ŭ
591-78-62-HEXANONE			6	Ū
127-18-4TETRACHLOROETHENE			6	Ŭ
108-88-3TOLUENE			6	Ū
79-34-51 1 2 2-TETRACHLOROETHANE			6	Ū
108-90-7CHLOROBENZENE			6	Ū
100-41-4ETHYL BENZENE			6	Ū
100-42-5STYRENE			6	Ū
156-59-2cis-1 2-DICHLOROETHENE			6	U
156-60-5trans-1 2-DICHLOROETHENE			6	Ū
13-302-07m,p-XYLENES			6	Ū
95-47-6XYLENE			6	U
106-93-41 2-DIBROMOETHANE			6	U
630-20-61 1 1 2-TETRACHLOROETHANE			6	Ū

Lab Name: SWL-TULSA Contract: FT HOOD

09SB111

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23762.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 20 Date Analyzed: 03/12/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

96-18-41 2 3-TRICHLOROPROPANE	6	ט
75-71-8DICHLORODIFLUOROMETHANE	_	
75-69-4TRICHLOROFLUOROMETHANE	6	Ü
74-95-3DIBROMOMETHANE	6	Ū
96-12-81 2-DIBROMO-3-CHLOROPROPANE	6	ָּט
	6	Ū
	6	ט
104-51-8n-BUTYLBENZENE	6	Ū
98-06-6tert-BUTYLBENZENE	6	ט
135-98-8sec-BUTYLBENZENE	6	ט
95-49-82-CHLOROTOLUENE	6	Ū
106-43-44-CHLOROTOLUENE	6	ן ט
95-50-11 2-DICHLOROBENZENE	6	ן ט
541-73-11 3-DICHLOROBENZENE	6	ן ט
106-46-71 4-DICHLOROBENZENE	6	ן ט
142-28-91 3-DICHLOROPROPANE	6	ן ט
594-20-72 2-DICHLOROPROPANE	6	וט ו
563-58-61 1-DICHLOROPROPENE	6	ט
87-68-3HEXACHLOROBUTADIENE	6	Ū
98-82-8ISOPROPYLBENZENE	6	ان ا
99-87-6p-ISOPROPYLTOLUENE	6	Ū
91-20-3NAPHTHALENE	6	Ü
103-65-1n-PROPYLBENZENE	6	Ū
87-61-61 2 3-TRICHLOROBENZENE	6	<u>ט</u>
120-82-11 2 4-TRICHLOROBENZENE	6	บี
95-63-61 2 4-TRIMETHYLBENZENE	6	บ็
108-67-81 3 5-TRIMETHYLBENZENE	6	ט
74-97-5BROMOCHLOROMETHANE	6	ıπ
74 57 5 BROMOCHLOROMETHANE	٥	
	l	1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

O Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11539.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 20 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND (ug/II of ug		<u>~</u>
108-95-2	Phenol	410	ט
	bis(2-Chloroethyl)ether	⁻ 410	บ
95-57-8	2-Chlorophenol	410	บ
	1,3-Dichlorobenzene	- 410	U
106-46-7	1,4-Dichlorobenzene	⁻ 410	U
100-51-6	Benzyl alcohol	⁻ 410	U
95-50-1	1,2-Dichlorobenzene	⁻ 410	U
95-48-7	2-Methylphenol	⁻ 410	U
	bis(2-Chloroisopropyl)ether	⁻ 410	U
106-44-5	4-Methylphenol	⁻ 410	U
621-64-7	N-Nitroso-di-n-propylamine_	⁻ 410	U
67-72-1	Hexachloroethane	⁻ 410	U
	Nitrobenzene	⁻ 410	U
	Isophorone	⁻ 410	U
88-75-5	2-Nitrophenol	_ 410	U
105-67-9	2,4-Dimethylphenol	410	U
	Benzoic Acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	_ 410	บ
120-82-1	1,2,4-Trichlorobenzene	⁻ 410	U
	Naphthalene	410	U
	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	บ
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2000	ט
	Dimethylphthalate	410	U
	Acenaphthylene	410	บ
606-20-2	2,6-Dinitrotoluene	410	ט
-	-		

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB111 Contract: FT. HOOD

b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11539.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 20 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/II or ug/	ng, co,nc	
99-09-2	3-Nitroaniline	2000	ט
	Acenaphthene	410	ע
121-14-2	2,4-Dinitrotoluene	410	ן ט
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	ַ ט
132-64-9	Dibenzofuran	410	ע
84-66-2	Diethylphthalate	410	ן ט
7005-72-3	4-Chlorophenyl-phenylether_	410	U
86-73-7	Fluorene	410	ן ט
100-01-6	4-Nitroaniline	2000	ַ ד
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine_(1)	410	U
101-55-3	4-Bromophenylphenylether	410	U
118-74-1	Hexachlorobenzene	410	U
	Pentachlorophenol	2000	ע
85-01-8	Phenanthrene	410	ט
	Anthracene	410	ט
84-74-2	Di-n-butylphthalate	410	บ
206-44-0	Fluoranthene	410	ט
129-00-0		410	U
85-68-7	Butylbenzylphthalate	410	บ
91-94-1	3,3'-Dichlorobenzidine	820	U
56-55-3	Benzo(a)anthracene	410	U
	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	ט
53-70-3	Dibenz(a,h)anthracene	410	ט
191-24-2	Benzo(g,h,i)perylene	410	ט
110-86-1	Pyridine	410	ע ו
110 00 1	- 1		
l			

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB111

o Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.04

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: P11539.D

(low/med) Level:

LOW

Date Received: 03/08/97

% Moisture: not dec.

dec. 20

Date Extracted: 03/10/97

SONC Extraction: (SepF/Cont/Sonc)

Date Analyzed: 03/11/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-9403----1,2,4,5-Tetrachlorobenzene

410

U

U.S. EPA - CLP

EPA	SAMPLE	NO.
-----	--------	-----

	I	NORGANIC A	ANALYSES DATA S	HE	ET	EP	A SAMPLE NO.
Lab Name: SOUTH Lab Code: SWOK_ Matrix (soil/wa Level (low/med) % Solids: Con	: LOW79.6	- 5		Dа	b sampl te Rece	SD Le I	75304 OG No.: 28753A D: 28753.04 ed: 03/08/97
	CAS No.	Analyte	Concentration	С	Q	М	
	7440-39-3 7440-43-9 7440-47-3	Selenium_	3.5 13.8 0.06 5.2 5.4 0.04 1.4 0.21	ם ם	EE	P	
				$\left - \right $		-	

Color Before: Color After:	BROWN	Clarity Before Clarity After:	: CLEAR_	Texture: Artifacts:	MEDIUN
Comments: CLIENT_ID_=	_09SB111				
		FORM T _ T	NT	TT.	<u>M02</u> 1

Lab Name: SWL-TULSA

Contract: FT HOOD

09SB112

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.05

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: C23779.D

Level: (low/med)

LOW

Date Received: 03/08/97

% Moisture: not dec. 7

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

	<u> </u>	, 	×
74-87-3CHLOROMETHANE		5	
74-83-9BROMOMETHANE		5	Ü
75-01-4VINYI, CHLORIDE		5	บ
75-00-3CHLOROETHANE		5	บ
75-09-2METHYLENE CHLORIDE		5	IJ
67-64-1ACETONE		46	U
75-35-41 1-DICHLOROETHENE	•	5	Ū
75-34-31 1-DICHLOROETHANE	•	5	บ
67-66-3	•	5	บ
107-06-21 2-DICHLOROETHANE		5	บ
78-93-32-BUTANONE		5	บ
71-55-61 1 1-TRICHLOROETHANE	1	5	ŭ
56-23-5CARBON TETRACHLORIDE		5	บ
75-27-4BROMODICHLOROMETHANE		5	บ
78-87-51 2-DICHLOROPROPANE	•	5	U U
79-01-6TRICHLOROETHENE		5	บ
124-48-1DIBROMOCHIOROMETHANE	•	5	ប
79-00-5 1 1 2-TRICHLOROETHANE	•	5	Ü
71-43-2BENZENE	· [5	บ
75-25-2BROMOFORM		5	Ü
108-10-14-METHYL-2-PENTANONE	•	5	Ü
591-78-62-HEXANONE	•	5	Ü
127-18-4TETRACHLOROETHENE	•	5	บ
108-88-3TOLUENE		5	บ
79-34-51 1 2 2-TETRACHLOROETHANE		5	บ
108-90-7CHLOROBENZENE	•	5	บ
100-41-4ETHYL BENZENE	1	5	บ
100-42-5STYRENE		5	
156-59-2			U
156-60-5trans-1 2-DICHLOROETHENE		5	U
13-302-07m, p-XYLENES		5	U
95-47-6XYLENE		5	U
106-93-41 2-DIBROMOETHANE		5	ū
630-20-61 1 1 2-TETRACHLOROETHANE		5	Ū
230 20 0 I I Z-IEIRACHLOROETHANE		5	U
	1	i	

Lab Name: SWL-TULSA Contract: FT HOOD

09SB112

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23779.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 7 Date Analyzed: 03/14/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

96-18-41 2 3-TRICHLOROPROPANE	5	ប
75-71-8DICHLORODIFLUOROMETHANE	5	บ
75-69-4TRICHLOROFLUOROMETHANE		Ŭ
74-95-3DIBROMOMETHANE	5 5	Ü
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	Ü
108-86-1BROMOBENZENE	1 5	บี
104-51-8n-BUTYLBENZENE	Š	Ŭ
98-06-6tert-BUTYLBENZENE	5 5 5 5	บั
135-98-8sec-BUTYLBENZENE	5	บั
95-49-82-CHLOROTOLUENE	5	Ü
106-43-44-CHLOROTOLUENE	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Ŭ
95-50-11 2-DICHLOROBENZENE	5	Ü
541-73-11 3-DICHLOROBENZENE	5	Ŭ
106-46-71 4-DICHLOROBENZENE	5	Ŭ
142-28-91 3-DICHLOROPROPANE	5	Ŭ
594-20-72 2-DICHLOROPROPANE	5	Ŭ
563-58-61 1-DICHLOROPROPENE	5	Ŭ
87-68-3HEXACHLOROBUTADIENE	5	Ŭ
98-82-8ISOPROPYLBENZENE	5	Ŭ
99-87-6p-ISOPROPYLTOLUENE	5	Ū
91-20-3NAPHTHALENE	5	Ū
103-65-1n-PROPYLBENZENE	5	Ŭ
87-61-61 2 3-TRICHLOROBENZENE	5	Ŭ
120-82-11 2 4-TRICHLOROBENZENE	5	ט ו
95-63-61 2 4-TRIMETHYLBENZENE	5	Ŭ
108-67-81 3 5-TRIMETHYLBENZENE	5	Ŭ
74-97-5BROMOCHLOROMETHANE	5	Ū
		· ———

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

b Name: SWL-TULSA Contract: FT. HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11540.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 7 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/l	kg) UG/KG	Q
108-95-2 111-44-4	bis(2-Chloroe	thyl)ether	350 350 350	U U
95-57-82-Chlorophenol			350	اق
541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene		350	υl	
100-40-7	0-51-6Benzyl alcohol		350	ט
95-50-1	50-11,2-Dichlorobenzene		350 350	ע
95-48-7	48-72-Methylphenol			ש
108-60-1	108-60-1bis(2-Chloroisopropyl)ether_			ע
106-44-5	6-44-54-Methylphenol			ָ ט
621-64-7	21-64-7N-Nitroso-di-n-propylamine		350 350	וט
67-72-1	Hexachloroetr	ane	350	บี
	Nitrobenzene_		350	ן ט
/8-59-1	Isophorone		350	ŭ
105-67-9	2-Nitrophenol 2,4-Dimethylr	henol	350	υ
65-95-0	Benzoic Acid		1700	ט
111-91-1	bis(2-Chloro	thoxy)methane	350	ַ ט
120-83-2	2.4-Dichloro	ohenol —	350	ע
120-82-1	2,4-Dichlorop	probenzene	350	ע
91-20-3	Naphthalene		350	U
106-47-8	4-Chloroanil:	ne	350	ַ
87-68-3	Hexachlorobut	adiene	350	Ü
59-50-7	4-Chloro-3-me	ethylphenol	350	Ŭ
91-57-6	2-Methylnaph	halene	350	U U
77-47-4	Hexachlorocy	clopentadiene	350 350	บ
88-06-2	2,4,6-Trichle	oropnenoi	1700	บ
95-95-4	2,4,5-Trichle	propnenoi	350	บ
91-58-72-Chloronaphthalene			1700	บี
88-74-42-Nitroaniline 131-11-3Dimethylphthalate			350	Ŭ
208-96-8Acenaphthylene			350	บี
606-20-2	2,6-Dinitrot	oluene	350	Ū
000-20 2				

09SB112

Q

Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11540.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 7 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

U 1700 99-09-2-----3-Nitroaniline 350 U 83-32-9-----Acenaphthene 350 U 121-14-2----2,4-Dinitrotoluene_ U 1700 51-28-5-----2,4-Dinitrophenol_ U 1700 100-02-7----4-Nitrophenol U 350 132-64-9-----Dibenzofuran U 350 84-66-2-----Diethylphthalate 7005-72-3----4-Chlorophenyl-phenylether U 350 U 350 86-73-7----Fluorene U 1700 100-01-6----4-Nitroaniline 534-52-1----4,6-Dinitro-2-methylphenol U 1700 U 86-30-6----N-Nitrosodiphenylamine_(1)__ 350 U 350 101-55-3----4-Bromophenylphenylether_ U 350 118-74-1-----Hexachlorobenzene U 1700 87-86-5-----Pentachlorophenol U 350 85-01-8-----Phenanthrene U 350 120-12-7-----Anthracene U 84-74-2----Di-n-butylphthalate_ 350 U 350 206-44-0----Fluoranthene 350 U 129-00-0-----Pyrene U 85-68-7-----Butylbenzylphthalate_ 350 U 710 91-94-1----3,3'-Dichlorobenzidine U 350 56-55-3----Benzo(a)anthracene_ U 350 218-01-9-----Chrysene U 117-81-7-----bis(2-Ethylhexyl)phthalate_ 350 U 350 117-84-0-----Di-n-octylphthalate U 350 205-99-2----Benzo(b)fluoranthene U 350 207-08-9----Benzo(k)fluoranthene 350 U 50-32-8-----Benzo(a)pyrene U 350 193-39-5----Indeno(1,2,3-cd)pyrene_ U 350 53-70-3-----Dibenz(a,h)anthracene_ U 350 191-24-2----Benzo(g,h,i)perylene_ U 350 110-86-1-----Pyridine

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

09SB112

.b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.05

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: P11540.D

(low/med) Level:

LOW

Date Received: 03/08/97

% Moisture: not dec.

dec. 7

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.8

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene_

350

U

U.S. EPA - CLP

EPA :	${ t SAMPLE}$	NTO

]	INORGANIC 2	1 ANALYSES DATA S	SHEET	EPA SAMPLE NO.
					75305
Lab Code: SWOK_ Matrix (soil/wa Level (low/med) % Solids:	Casater): SOIL : LOW92.8	se No.: - 8		Lab Samp Date Rec	SDG No.: 28753A le ID: 28753.05 eived: 03/08/97
Cor	ncentration	Units (ug	/L or mg/kg dry	y weight)	: MG/KG
	CAS No.	Analyte	Concentration	C Q	М
Color Before: Color After:	7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	Selenium_Silver	4.8 0.04 1.2 0.18	U E	P_P_P_P_P_AV F_P
Comments:	 =_09SB112				

FORM I - IN

ILM02.1

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23780.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kq) UG/KG O

CAS NO.

COMPOUND

74-87-3-----CHLOROMETHANE 6 U 74-83-9-----BROMOMETHANE 6 U 75-01-4-----VINYL CHLORIDE 6 U 75-00-3------CHLOROETHANE U 6 75-09-2----METHYLENE CHLORIDE U 6 67-64-1-----ACETONE 63 75-35-4-----1 1-DICHLOROETHENE 75-34-3-----1 1-DICHLOROETHANE Ū 6 6 U 67-66-3-----CHLOROFORM 6 U 107-06-2----1 2-DICHLOROETHANE 6 U 78-93-3----2-BUTANONE U 6 71-55-6-----1 1 1-TRICHLOROETHANE 6 U 56-23-5-----CARBON TETRACHLORIDE 6 U 75-27-4-----BROMODICHLOROMETHANE 6 U 78-87-5----1 2-DICHLOROPROPANE 6 U 79-01-6----TRICHLOROETHENE 6 U 124-48-1-----DIBROMOCHLOROMETHANE U 6 79-00-5-----1 1 2-TRICHLOROETHANE 6 U 71-43-2----BENZENE 6 U 75-25-2----BROMOFORM 6 U 108-10-1----4-METHYL-2-PENTANONE 6 U 591-78-6----2-HEXANONE 6 U 127-18-4-----TETRACHLOROETHENE 6 U 108-88-3-----TOLUENE 6 U 79-34-5-----1 1 2 2-TETRACHLOROETHANE 6 U 108-90-7-----CHLOROBENZENE 6 U 100-41-4----ETHYL BENZENE 6 U 100-42-5----STYRENE 6 U 156-59-2----cis-1 2-DICHLOROETHENE 6 U 156-60-5-----trans-1 2-DICHLOROETHENE 6 U 13-302-07----m,p-XYLENES 6 U 95-47-6------XYLENE 6 U 106-93-4-----1 2-DIBROMOETHANE 6 U 630-20-6-----1 1 1 2-TETRACHLOROETHANE U 6

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23780.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 22 Date Analyzed: 03/14/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

75-71-8 75-69-4 74-95-3 96-12-8 108-86-1 98-06-6 135-98-8 95-49-8 106-43-4 95-50-1 541-73-1 142-28-9	BROMOBENZENEn-BUTYLBENZENEtert-BUTYLBENZENEsec-BUTYLBENZENE2-CHLOROTOLUENE1 2-DICHLOROBENZENE1 3-DICHLOROBENZENE1 4-DICHLOROBENZENE1 3-DICHLOROPROPANE	666666666666666	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט
541-73-1 106-46-7 142-28-9 594-20-7 563-58-6	1 3-DICHLOROBENZENE1 4-DICHLOROBENZENE1 3-DICHLOROPROPANE2 2-DICHLOROPROPANE	6 6 6	ט ט ט ט
98-82-8	ISOPROPYLBENZENE p-ISOPROPYLTOLUENE NAPHTHALENE	6 6 6 6 6	ט ט ט ט
120-82-1 95-63-6 108-67-8 74-97-5	1 2 4-TRICHLOROBENZENE1 2 4-TRIMETHYLBENZENE1 3 5-TRIMETHYLBENZENEBROMOCHLOROMETHANE	6 6	U U U U

Contract: FT. HOOD o Name: SWL-TULSA

SDG No.: 28753 SAS No.: Case No.: SAIC Lab Code: SWOK

Lab Sample ID: 28753.06 Matrix: (soil/water) SOIL

Lab File ID: P11541.D 30.0 (g/mL) GSample wt/vol:

Date Received: 03/08/97 Level: (low/med) LOW

Date Extracted:03/10/97 dec. 22 % Moisture: not dec.

Date Analyzed: 03/11/97 Extraction: (SepF/Cont/Sonc) SONC

1000(uL) Concentrated Extract Volume:

Dilution Factor: 1.0 pH: 8.0

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG 0 COMPOUND CAS NO.

CAS NO.	COMPOUND (ug/L or u	g/Kg) UG/KG	Q
1.00 05 0	Phonol	420	ט
108-95-2	bis(2-Chloroethyl)ether	- 420	וט
111-44-4	2-Chlorophenol	_ 420	ע
95-57-8	1 2-Dighlorobenzene	- 420	ע
541-73-1	1,3-Dichlorobenzene	- 420	ן ט
106-46-7	1,4-Dichlorobenzene	- 420	ַ
100-51-6	Benzyl alcohol	- 420	ן ט
95-50-1	1,2-Dichlorobenzene	- 420	ן ט
95-48-7	2-Methylphenol_	420	ע
108-60-1	bis(2-Chloroisopropyl)ether	- 420	וט
106-44-5	4-Methylphenol_	- 420	וט
621-64-7	N-Nitroso-di-n-propylamine_	<u> </u>	ן ט
67-72-1	Hexachloroethane	- 420	ש
98-95-3	Nitrobenzene	420	וט
78-59-1	Isophorone	— 420	וט
88-75-5	2-Nitrophenol	- 420	וט
105-67-9	2,4-Dimethylphenol	_ 2000	וט
1 6- 6- 6	Ponzoic AC10	— 420 l	וט
111-91-1	bis(2-Chloroethoxy)methane	420	וט
120-93-2	2.4-Dichlorophenor	— 420	ט
120-82-1	1,2,4-Trichlorobenzene	- 420	Ū
01-20-3	Naphthalene	- 420	Ü
106-47-8	4-Chloroaniline	— 420 420 A	บ็
07 60-2	Heyach orobutadiene	— 420 420 H	Ū
59-50-7	4-Chloro-3-metnylphenor	- 420	Ü
01-57-6	2-Methylnaphthalene	— 420 420	บี
77-47-4	Hexachlorocyclopentadiene_	— 420 420	บี
1 99-06-2	2.4.6-Trichlorophenol	- 2000	บี
05-05-4	2.4.5-Trichlorophenoi		บ
01-58-7	2-Chloronaphthaiene	420	ט ט
98-71-4	2-Nitroaniline	2000	ט
131-11-3	Dimethylphthalate	420	U U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	1
000-20-2			

b Name: SWL-TULSA Contract: FT. HOOD 09SB113

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11541.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 22 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

2000 U 99-09-2----3-Nitroaniline 420 U 83-32-9-----Acenaphthene 420 U 121-14-2----2,4-Dinitrotoluene 2000 U 51-28-5----2,4-Dinitrophenol_ 2000 U 100-02-7----4-Nitrophenol U 420 132-64-9-----Dibenzofuran U 84-66-2-----Diethylphthalate 420 U 7005-72-3----4-Chlorophenyl-phenylether_ 420 U 420 86-73-7-----Fluorene 2000 U 100-01-6----4-Nitroaniline 2000 U 534-52-1----4,6-Dinitro-2-methylphenol_ U 420 86-30-6----N-Nitrosodiphenylamine_(1)_ U 420 101-55-3----4-Bromophenylphenylether___ U 420 118-74-1-----Hexachlorobenzene U 2000 87-86-5-----Pentachlorophenol U 420 85-01-8-----Phenanthrene U 420 120-12-7-----Anthracene U 420 84-74-2----Di-n-butylphthalate_ U 420 206-44-0----Fluoranthene_ 420 U 129-00-0----Pyrene U 420 85-68-7-----Butylbenzylphthalate U 91-94-1----3,3 -Dichlorobenzidine 850 U 420 56-55-3----Benzo(a)anthracene U 420 218-01-9-----Chrysene J 117-81-7-----bis(2-Ethylhexyl)phthalate_ 160 U 420 U 420 U 420 207-08-9----Benzo(k)fluoranthene U 420 50-32-8-----Benzo(a)pyrene U 420 193-39-5----Indeno(1,2,3-cd)pyrene_ U 420 53-70-3-----Dibenz(a,h)anthracene_ U 420 191-24-2----Benzo(g,h,i)perylene___ 420 110-86-1-----Pyridine

b Name: SWL-TULSA

Contract: FT. HOOD

SDG No.: 28753 Lab Code: SWOK Case No.: SAIC SAS No.:

Lab Sample ID: 28753.06 Matrix: (soil/water) SOIL

Lab File ID: P11541.D 30.0 (g/mL) GSample wt/vol:

Date Received: 03/08/97 Level: (low/med) LOW

Date Extracted: 03/10/97 % Moisture: not dec. 22 dec.

Date Analyzed: 03/11/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 8.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

420 U 95-9403-----1,2,4,5-Tetrachlorobenzene_

09SB113RE

b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.06RA

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11558.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 22 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

420 U 108-95-2----Phenol 420 U 111-44-4-----bis(2-Chloroethyl)ether_ 420 U 95-57-8----2-Chlorophenol 420 U 541-73-1----1,3-Dichlorobenzene 420 U 106-46-7----1,4-Dichlorobenzene_ U 420 100-51-6-----Benzyl alcohol 420 U 95-50-1----1,2-Dichlorobenzene_ U 420 95-48-7----2-Methylphenol 420 U 108-60-1-----bis(2-Chloroisopropyl)ether_ 420 U 106-44-5----4-Methylphenol U 420 621-64-7----N-Nitroso-di-n-propylamine U 420 67-72-1-----Hexachloroethane U 420 98-95-3----Nitrobenzene U 420 78-59-1----Isophorone 420 U 88-75-5----2-Nitrophenol U 420 105-67-9----2,4-Dimethylphenol_ U 2000 65-85-0-----Benzoic Acid 420 U 111-91-1-----bis(2-Chloroethoxy)methane U 420 120-83-2----2,4-Dichlorophenol U 120-82-1-----1,2,4-Trichlorobenzene_ 420 U 420 91-20-3----Naphthalene U 420 106-47-8----4-Chloroaniline U 420 87-68-3-----Hexachlorobutadiene U 420 59-50-7----4-Chloro-3-methylphenol_ U 420 91-57-6----2-Methylnaphthalene U 77-47-4-----Hexachlorocyclopentadiene_ 88-06-2----2,4,6-Trichlorophenol____ 420 U 420 U 2000 95-95-4----2,4,5-Trichlorophenol_ U 420 91-58-7----2-Chloronaphthalene_ U 2000 88-74-4----2-Nitroaniline U 420 131-11-3-----Dimethylphthalate U 420 208-96-8-----Acenaphthylene U 420 606-20-2----2,6-Dinitrotoluene

09SB113RE

b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.06RA

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11558.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 22 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/l	kg) UG/KG	Q
00-00-2	3-Nitroaniline		2000	U
	Acenaphthene		420	ט
121-14-2	2,4-Dinitrotol	uene	420	וט
51-28-5	2,4-Dinitrophe	nol	2000	וט
100-02-7	4-Nitrophenol_		2000	וט
122-64-0	Dibenzofuran_		420	וט
04-66-2	Diethylphthala	te	420	וט
7005-72-3	4-Chlorophenyl	-phenylether	420	וט
96-73-7	Fluorene	F	420	ן ט
100-01-6	4-Nitroaniline		2000	וט
524-52-1	4,6-Dinitro-2-	methylphenol	2000	ן ט
06-20-6	N-Nitrosodiphe	nylamine (1)	420	וט
101-55-3	4-Bromophenylp	henvlether	420	וט
1101-33-3	Hexachlorobenz	ene	420	וט
07-06-5	Pentachlorophe	enol	2000	וט
05-01-8	Phenanthrene		420	וט
120-12-7	Anthracene		420	וט
84-74-2	Di-n-butylphth	alate	420	וט
206-44-0	Fluoranthene_		420	ט
129-00-0	Pyrene		420	U
95-68-7	Butylbenzylpht	halate	420	ַ ד
01-04-1	3,3'-Dichlorok	enzidine	850	ן ט
56-55-3	Benzo(a)anthra	cene	420	ַ ט
210-01-0	Chrysene		420	ן ט
117-01-7	bis(2-Ethylher	vl)phthalate	170	J
117-01-7	Di-n-octylphth	nalate	420	ן ט
205-09-2	Benzo(b)fluora	nthene	420	ן ט
203-99-2	Benzo(k)fluora	nthene	420	ן ט
50-22-8	Benzo(a)pyrene	3	420	ן ט
103-30-5	Indeno(1,2,3-c	d)pyrene	420	ן ט
193-39-3	Dibenz(a,h)an	hracene	420	ן ט
101-24-2	Benzo(g,h,i)po	ervlene	420	ן ט
110-26-1	Pyridine		420	ן ט
110-80-1				
1				. —— '

09SB113RE

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06RA

P11558.D

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

(low/med) Level:

LOW

Date Received: 03/08/97

% Moisture: not dec.

22 dec. Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc)

SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup:

(Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene_

420

U

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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Cas No.	Matrix (soil/wa Level (low/med & Solids:	ater): SOIL): LOW_ _77.	- 7	Contract: SAS No.:	Date Rece	75306 SDG No.: 2 e ID: 28753 ived: 03/08	.06
T440-38-2	Co	ncentration	Units (ug	/L or mg/kg dry	y weight):		
Taxture: Martifacts: Comments: Section Clarity Before: Clarity After: CLEAR CLEAR CLEAR CLEAR Cartifacts: Comments: Comments: Comments: Comments: Comments: Cartify After: CLEAR CLEAR Cartifacts: Comments: Comments: Comments: Comments: Comments: Comments: Comments: Comments: Comments: Cadmium		CAS No.	Analyte	Concentration	C Q	M	
Color After: YELLOW Clarity After: CLEAR Artifacts: Comments:		7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	Barium Cadmium Chromium Lead Mercury Selenium	45.7 0.06 11.5 8.7 0.04 1.4	E	P_ P_ P_ P_ AV	
Color After: YELLOW Clarity After: CLEAR Artifacts: Comments:							
Color After: YELLOW Clarity After: CLEAR Artifacts: Comments:							
			Clari Clari	ty Before: CLE	AR_		MEDIUM
		=_09SB113					

09SB114

Lab Name: SWL-TULSA Contract: FT HOOD

Case No.: SAIC

5.0 (g/mL) G

SAS No.: SDG No.: 28753

Lab Sample ID: 28753.07

Matrix: (soil/water) SOIL

Sample wt/vol:

Lab Code: SWOK

Lab File ID: C23801.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 16

Date Analyzed: 03/18/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6
--

Lab Name: SWL-TULSA

EPA SAMPLE NO.

09SB114

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23801.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 16 Date Analyzed: 03/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

96-18-41 2 3-TRICHLOROPROPANE	6	U
75-71-8DICHLORODIFLUOROMETHANE	6	ש
75-69-4TRICHLOROFLUOROMETHANE	, 6	บ
74-95-3DIBROMOMETHANE	6	
96-12-81 2-DIBROMO-3-CHLOROPROPANE		IJ
108-86-1BROMOBENZENE	6	Ŭ
104-51-8n-BUTYLBENZENE	6	IJ
98-06-6tert-BUTYLBENZENE	6	U
135-98-8sec-BUTYLBENZENE	6	Ŭ
95-49-82-CHLOROTOLUENE	6	Ū
106-43-44-CHLOROTOLUENE	6	Ū
95-50-11 2-DICHLOROBENZENE	6	U
541-73-11 3-DICHLOROBENZENE	6	Ū
106-46-71 4-DICHLOROBENZENE	6	Ŭ
142-28-91 3-DICHLOROPROPANE	6	Ŭ
594-20-72 2-DICHLOROPROPANE	6	Ū
2 2 DICHLOROTROPANE	6	Ŭ
T T DICHIONOLINI	6	Ŭ
• · • • • · · · · · · · · · · · · · ·	6	U
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6	U
99-87-6p-ISOPROPYLTOLUENE	6	U
91-20-3NAPHTHALENE	6	U
103-65-1n-PROPYLBENZENE	6	U
87-61-61 2 3-TRICHLOROBENZENE	6	U
120-82-11 2 4-TRICHLOROBENZENE	6	U
95-63-61 2 4-TRIMETHYLBENZENE	6	U
108-67-81 3 5-TRIMETHYLBENZENE	6	U
74-97-5BROMOCHLOROMETHANE	6	U

Contract: FT. HOOD o Name: SWL-TULSA

09SB114

SDG No.: 28753 SAS No.: Case No.: SAIC Lab Code: SWOK

Lab Sample ID: 28753.07 Matrix: (soil/water) SOIL

Lab File ID: P11542.D 30.0 (g/mL) GSample wt/vol:

Date Received: 03/08/97 (low/med) LOW Level:

Date Extracted: 03/10/97 dec. % Moisture: not dec. 16

Date Analyzed: 03/11/97 (SepF/Cont/Sonc) SONC Extraction:

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 pH: 8.6 GPC Cleanup: (Y/N) N

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND CAS NO.

Q 390 U 108-95-2----Phenol 390 U 111-44-4-----bis(2-Chloroethyl)ether_ U 390 95-57-8----2-Chlorophenol U 390 541-73-1----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene_ U 390 390 U 100-51-6-----Benzyl alcohol 95-50-1-----1,2-Dichlorobenzene_ 390 U 390 U 95-48-7----2-Methylphenol 390 U 108-60-1-----bis(2-Chloroisopropyl)ether_ 390 U 106-44-5----4-Methylphenol 390 U 621-64-7----N-Nitroso-di-n-propylamine U 390 67-72-1-----Hexachloroethane U 390 98-95-3----Nitrobenzene 390 U 78-59-1----Isophorone 390 U 88-75-5----2-Nitrophenol 390 U 105-67-9----2,4-Dimethylphenol 1900 U 65-85-0-----Benzoic Acid U 390 111-91-1-----bis(2-Chloroethoxy)methane U 390 120-83-2----2,4-Dichlorophenol U 120-82-1----1,2,4-Trichlorobenzene_ 390 U 390 91-20-3----Naphthalene U 390 106-47-8----4-Chloroaniline U 390 87-68-3-----Hexachlorobutadiene U 59-50-7----4-Chloro-3-methylphenol_ 390 U 390 91-57-6----2-Methylnaphthalene 77-47-4-----Hexachlorocyclopentadiene 390 U 88-06-2----2,4,6-Trichlorophenol U 390 U 1900 95-95-4----2,4,5-Trichlorophenol_ U 390 91-58-7----2-Chloronaphthalene_ U 1900 88-74-4----2-Nitroaniline U 390 131-11-3-----Dimethylphthalate U 390 208-96-8-----Acenaphthylene U 390 606-20-2----2,6-Dinitrotoluene

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB114

b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11542.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 16 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/	kg) UG/kG	
00.00.0	2-Nitroppiline		1900	U
99-09-2	3-Nitroaniline_		390	ŭ
83-32-9	Acenaphthene	ene	390	υl
121-14-2	2,4-Dinitrotolu	iene	1900	Ü
51-28-5	2,4-Dinitropher		1900	Ü
100-02-7	4-Nitrophenol_		390	Ü
132-64-9	Dibenzofuran		390	וט
84-66-2	Diethylphthalat	e	390	Ü
7005-72-3	4-Chlorophenyl-	buenArerner	390	ŭ
86-73-7	Fluorene		1900	บี
100-01-6	4-Nitroaniline			ชื่
534-52-1	4,6-Dinitro-2-	metnyibuenoi	1900	
86-30-6	N-Nitrosodiphe	nylamine_(1)	390	ָט
101-55-3	4-Bromophenylpl	nenylether	390	Ü
118-74-1	Hexachlorobenze	ene	390	ŭ
87-86-5	Pentachlorophe	ol	1900	ַ
85-01-8	Phenanthrene		390	Ū
120-12-7	Anthracene		390	ט
84-74-2	Di-n-butylphth	alate	390	Ü
206-44-0	Fluoranthene		390	ע ע
129-00-0	Pyrene		390	ַ
85-68-7	Butvlbenzvlpht	nalate	390	ַ
91-94-1	3,3'-Dichlorob	enzidine	780	ט
56-55-3	Benzo(a)anthra	cene	390	ן ט
218-01-9	Chrvsene		390	ן ט
117-81-7	bis(2-Ethvlhex	yl)phthalate	390	ן ט
117-84-0	Di-n-octylphth	alate	390	ט
205-99-2	Benzo(b)fluora	nthene	390	ן ט
207-08-9	Benzo(k)fluora	nthene	390	ן ט
50-32-8	Benzo(a)pyrene		390	
193-39-5	Indeno(1,2,3-c	d)pyrene	390	
53-70-3	Dibenz(a,h)ant	hracene	390	
101-24-2	Benzo(g,h,i)pe	rvlene	390	ן ט
110-86-1	Pyridine		390	U
110-00-1	1 1 1 1 1 1 1 1 1			
			I	

Contract: FT. HOOD b Name: SWL-TULSA

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.07

30.0 (g/mL) G

Lab File ID: P11542.D

Sample wt/vol: (low/med)

Date Received: 03/08/97

Level: % Moisture: not dec.

dec. 16

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc)

SONC

LOW

Date Analyzed: 03/11/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene

390

U

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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	THOUGHITC WIN	MIDDO DAIR DIDDI	
Lab Name: SOUTHWEST 1	LAB OF OK	Contract: SAIC	75307
Lab Code: SWOK	Case No.:	SAS No.:	SDG No.: 28753A
Matrix (soil/water):		Lab Sample	e ID: 28753.07
Level (low/med):	LOW	Date Rece:	ived: 03/08/97
% Solids:	_83.7		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

			1		
CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	8.4			<u>P_</u>
7440-39-3	Barium	16.3		E	P_
7440-43-9	Cadmium	0.06	ਹ		P
7440-47-3	Chromium	6.0		E	P
7439-92-1	Lead	11.5	_		P
7439-97-6	Mercury_	0.04	Ū		ΑV
	Selenium	1.3	U	W	F
7440-22-4	Silver	0.20	U		P
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			_		
	BROWN	Clarity Before: Clarity After:	CLEAR_	Texture: Artifacts:	MEDIUM
CLIENT_ID_=_	_09SB114				
		FORM I - IN	T	IL	M02.1

0**9SB11**5

Lab Name: SWL-TULSA Contract: FT HOOD

Case No.: SAIC

Lab Code: SWOK

SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.08

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23782.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 6 Date Analyzed: 03/14/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

74-87-3CHLOROMETHANE	5	U
74-83-9BROMOMETHANE	5	Ü
75-01-4VINYL CHLORIDE	5	וט
75-00-3CHLOROETHANE	5	Ü
75-09-2METHYLENE CHLORIDE	5	ان
67-64-1ACETONE	46	
75-35-41 1-DICHLOROETHENE	5	<u> </u>
75-34-31 1-DICHLOROETHANE	5	اق
67-66-3CHLOROFORM	5	Ü
107-06-21 2-DICHLOROETHANE	5	ו ט
78-93-32-BUTANONE	5	ו ט
71-55-61 1 1-TRICHLOROETHANE	5	ן ט
56-23-5CARBON TETRACHLORIDE	5	ן ט
75-27-4BROMODICHLOROMETHANE	5	ן ט
78-87-51 2-DICHLOROPROPANE	5	ן ט
79-01-6TRICHLOROETHENE	5	ן ט
124-48-1DIBROMOCHLOROMETHANE	5	ו ט
79-00-51 1 2-TRICHLOROETHANE	5	ן ט
71-43-2BENZENE	5	ט ו
75-25-2BROMOFORM	5	ן ט
108-10-14-METHYL-2-PENTANONE	5	וט ו
591-78-62-HEXANONE	5	ان ا
127-18-4TETRACHLOROETHENE	5	ן ט
108-88-3TOLUENE	5	ا ت
79-34-51 1 2 2-TETRACHLOROETHANE	5	ان ا
108-90-7CHLOROBENZENE	5	ט ו
100-41-4ETHYL BENZENE	5	וט ו
100-42-5STYRENE	5	ן ט
156-59-2cis-1 2-DICHLOROETHENE	5	Ū
156-60-5trans-1 2-DICHLOROETHENE	5	ו ט
13-302-07m,p-XYLENES	5	Ü
95-47-6	5	ان
106-93-41 2-DIBROMOETHANE	5	ן ט
630-20-61 1 1 2-TETRACHLOROETHANE	. 5	ן ט
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09SB115

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.08

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23782.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 6

Date Analyzed: 03/14/97

(ug/L or ug/Kg) UG/KG O

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

108-67-8-----1 3 5-TRIMETHYLBENZENE

74-97-5----BROMOCHLOROMETHANE

96-18-4-----1 2 3-TRICHLOROPROPANE 5 U 75-71-8-----DICHLORODIFLUOROMETHANE U 75-69-4-----TRICHLOROFLUOROMETHANE 5 5 5 U 74-95-3------DIBROMOMETHANE U 96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE U 108-86-1-----BROMOBENZENE 5 5 U 104-51-8----n-BUTYLBENZENE U 98-06-6-----tert-BUTYLBENZENE 5 U 135-98-8-----sec-BUTYLBENZENE U 95-49-8----2-CHLOROTOLUENE 5 U 5 106-43-4----4-CHLOROTOLUENE U 95-50-1-----1 2-DICHLOROBENZENE 5 5 U 541-73-1----1 3-DICHLOROBENZENE U 106-46-7-----1 4-DICHLOROBENZENE 5 U 142-28-9----- 3-DICHLOROPROPANE 5 U 594-20-7----2 2-DICHLOROPROPANE 5 U 563-58-6-----1 1-DICHLOROPROPENE 5 5 U 87-68-3-----HEXACHLOROBUTADIENE U 98-82-8-----ISOPROPYLBENZENE 5 U 99-87-6----p-ISOPROPYLTOLUENE 5 U 91-20-3-----NAPHTHALENE 5 U 103-65-1----n-PROPYLBENZENE 5 U 87-61-6-----1 2 3-TRICHLOROBENZENE 5 U 120-82-1----1 2 4-TRICHLOROBENZENE 5 U 95-63-6-----1 2 4-TRIMETHYLBENZENE 5 U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09SB115

Contract: FT. HOOD b Name: SWL-TULSA

SDG No.: 28753 SAS No.: Case No.: SAIC Lab Code: SWOK

Lab Sample ID: 28753.08 Matrix: (soil/water) SOIL

30.0 (g/mL) GLab File ID: P11543.D Sample wt/vol:

Date Received: 03/08/97 Level: (low/med) LOW

Date Extracted: 03/10/97 dec. 6 % Moisture: not dec.

Date Analyzed: 03/11/97 Extraction: (SepF/Cont/Sonc) SONC

1000(uL) Concentrated Extract Volume:

Dilution Factor: 1.0 pH: 8.2 GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND

Q CAS NO. U 350 108-95-2----Phenol 350 U 111-44-4-----bis(2-Chloroethyl)ether_ U 350 95-57-8----2-Chlorophenol U 350 541-73-1----1,3-Dichlorobenzene U 350 106-46-7----1,4-Dichlorobenzene_ U 350 100-51-6-----Benzyl alcohol U 350 95-50-1----1,2-Dichlorobenzene U 350 95-48-7----2-Methylphenol U 108-60-1-----bis(2-Chloroisopropyl)ether_ 350 U 350 106-44-5----4-Methylphenol U 621-64-7----N-Nitroso-di-n-propylamine_ 350 U 350 67-72-1-----Hexachloroethane U 350 98-95-3----Nitrobenzene U 350 78-59-1----Isophorone U 350 88-75-5----2-Nitrophenol U 350 105-67-9----2,4-Dimethylphenol_ U 1700 65-85-0-----Benzoic Acid 111-91-1-----bis(2-Chloroethoxy)methane_ U 350 U 120-83-2----2,4-Dichlorophenol 350 U 350 120-82-1----1,2,4-Trichlorobenzene U 350 91-20-3----Naphthalene U 350 106-47-8----4-Chloroaniline U 350 87-68-3-----Hexachlorobutadiene U 350 59-50-7----4-Chloro-3-methylphenol U 350 91-57-6----2-Methylnaphthalene U 350 77-47-4-----Hexachlorocyclopentadiene_ U 350 88-06-2----2,4,6-Trichlorophenol U 1700 95-95-4----2,4,5-Trichlorophenol U 350 91-58-7----2-Chloronaphthalene U 1700 88-74-4----2-Nitroaniline U 350 131-11-3-----Dimethylphthalate U 350 208-96-8-----Acenaphthylene U 350 606-20-2----2,6-Dinitrotoluene_

EPA SAMPLE NO.

09SB115

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b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11543.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 6 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

1700 99-09-2----3-Nitroaniline 350 U 83-32-9-----Acenaphthene 350 U 121-14-2----2,4-Dinitrotoluene_ 1700 U 51-28-5----2,4-Dinitrophenol_ U 1700 100-02-7----4-Nitrophenol U 350 132-64-9-----Dibenzofuran 84-66-2-----Diethylphthalate 350 U U 7005-72-3----4-Chlorophenyl-phenylether 350 U 350 86-73-7----Fluorene U 1700 100-01-6-----4-Nitroaniline U 1700 534-52-1----4,6-Dinitro-2-methylphenol_ U 350 86-30-6----N-Nitrosodiphenylamine_(1)_ U 350 101-55-3----4-Bromophenylphenylether___ U 350 118-74-1-----Hexachlorobenzene U 1700 87-86-5----Pentachlorophenol U 350 85-01-8-----Phenanthrene U 350 120-12-7-----Anthracene U 350 84-74-2-----Di-n-butylphthalate 350 U 206-44-0----Fluoranthene__ 350 U 129-00-0----Pyrene 350 U 85-68-7-----Butylbenzylphthalate 91-94-1----3,3'-Dichlorobenzidine 700 U 350 U 56-55-3----Benzo(a)anthracene_ 350 U 218-01-9-----Chrysene 117-81-7-----bis(2-Ethylhexyl)phthalate_ 350 U U 350 117-84-0-----Di-n-octylphthalate_ 350 U 205-99-2----Benzo(b)fluoranthene 350 U 207-08-9----Benzo(k)fluoranthene 350 U 50-32-8-----Benzo(a)pyrene 350 U 193-39-5----Indeno(1,2,3-cd)pyrene_ U 350 53-70-3-----Dibenz(a,h)anthracene U 350 191-24-2----Benzo(g,h,i)perylene__ U 350 110-86-1-----Pyridine

Case No.: SAIC SAS No.:

09SB115

b Name: SWL-TULSA Contract: FT. HOOD

SDG No.: 28753

Matrix: (soil/water) SOIL Lab Sample ID: 28753.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11543.D

Level: (low/med) LOW Date Received: 03/08/97

% Moisture: not dec. 6 dec. Date Extracted:03/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

Lab Code: SWOK

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

95-9403-----1,2,4,5-Tetrachlorobenzene___ 350 U

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	370
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		INORGANIC	ANALYSES DATA S	SHEET	1	
Lab Name: SOUTH Lab Code: SWOK_	WEST_LAB_O	F_OK	Contract: SA SAS No.:	AIC	75308 SDG No.: 2	28753A
Matrix (soil/wa Level (low/med) % Solids:	ter): SOIL	-	BAD NO.	Lab Sampl	Le ID: 28753 eived: 03/08	3.08
Con	centration	Units (ug	/L or mg/kg dry	y weight):	MG/KG	
	CAS No.	Analyte	Concentration	O Q	М	
	7440-39-3 7440-43-9	Arsenic	6.8 3.0 0.05 2.1	E	P_ P_ P_ P_	
	7439-92-1 7439-97-6		4.7 0.04 1.2 0.18	U E	P_ AV F_ P_	
-						
Color Before: Color After:	BROWN	Clari	ity Before: ity After: CLE	AR_	Texture: Artifacts:	MEDIUM
Comments: CLIENT_ID_=	_09SB115					
			FORM I - IN		II	<u></u>

Lab Name: SWL-TULSA Contract: FT HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C26086.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 10 Date Analyzed: 04/20/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L Of	ug/ kg/	OG/ RG	Q
74-87-3	CHLOROMETHANE			6	U
	BROMOMETHANE			6	וט
75-01-4	VINYL CHLORIDE			6	וט
75-00-3	CHLOROETHANE			6	וט
75-09-2	METHYLENE CHLORIDE			6	U
67-64-1				6	U
75-35-4	1 1-DICHLOROETHENE			6	ע
75-34-3	1 1-DICHLOROETHANE			6	ע
67-66-3	CHLOROFORM			6	ע
107-06-2	1 2-DICHLOROETHANE			6	יט
78-93-3	2-BUTANONE			6	ע
71-55-6	1 1 1-TRICHLOROETHANE			6	ן ט
56-23-5	CARBON TETRACHLORIDE			6	ש
75-27-4	BROMODICHLOROMETHANE			6	ַ
78-87-5	1 2-DICHLOROPROPANE			6	ע
79-01-6	TRICHLOROETHENE			6	U
124-48-1	DIBROMOCHLOROMETHANE			6	ַ
79-00-5	1			6	U
71-43-2	BENZENE			6	ַ
75-25-2	BROMOFORM			6	U
108-10-1	4-METHYL-2-PENTANONE			6	U
591-78-6	2-HEXANONE			6	<u>ע</u>
127-18-4	TETRACHLOROETHENE			6	U
108-88-3	TOLUENE			6	ū
79-34-5	1 1 2 2-TETRACHLOROETH	ANE		6	Ω
	CHLOROBENZENE			6	U
	ETHYL BENZENE			6	ū
100-42-5	STYRENE			6	ַ
156-59-2	cis-1 2-DICHLOROETHENE			6	ū
156-60-5	trans-1 2-DICHLOROETHE	NE		6	ַ ע
13-302-07	m,p-XYLENES			6	ָּע
1 95-47-6	O-XYLENE			6	U
106-93-4	1 2-DIBROMOETHANE			6	Ŭ
630-20-6	1 1 1 2-TETRACHLOROETH	IANE		6	ָּט
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09SB116

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C26086.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 10 Date Analyzed: 04/20/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

96-18-41 2 3-TRICHLOROPROPANE	6	ט
75-71-8DICHLORODIFLUOROMETHANE	6	וט
75-69-4TRICHLOROFLUOROMETHANE	6	ע
74-95-3DIBROMOMETHANE	6	וט
96-12-81 2-DIBROMO-3-CHLOROPROPANE	6	ן ט
108-86-1BROMOBENZENE	6	ט
104-51-8n-BUTYLBENZENE	6	ַ
98-06-6tert-BUTYLBENZENE	6	ַ ט
135-98-8sec-BUTYLBENZENE	6	ט
95-49-82-CHLOROTOLUENE	6	ט
106-43-44-CHLOROTOLUENE	6	U
95-50-11 2-DICHLOROBENZENE	6	ע
541-73-11 3-DICHLOROBENZENE	6	ט
106-46-71 4-DICHLOROBENZENE	6	ַ
142-28-91 3-DICHLOROPROPANE	6	ט
594-20-72 2-DICHLOROPROPANE	6	U
563-58-61 1-DICHLOROPROPENE	6	U
87-68-3HEXACHLOROBUTADIENE	6	Ū
98-82-8ISOPROPYLBENZENE	6	ע
99-87-6p-ISOPROPYLTOLUENE	6	ט
91-20-3NAPHTHALENE	6	ט
103-65-1n-PROPYLBENZENE	6	U
87-61-61 2 3-TRICHLOROBENZENE	6	ן די
120-82-11 2 4-TRICHLOROBENZENE	6	ן די
95-63-61 2 4-TRIMETHYLBENZENE	6	ן ט
108-67-81 3 5-TRIMETHYLBENZENE	6	ן ט
74-97-5BROMOCHLOROMETHANE	6	ן ט

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C26087.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 18 Date Analyzed: 04/20/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO. 6 U U 6 74-83-9-----BROMOMETHANE U 6 75-01-4-----VINYL CHLORIDE U 6 75-00-3-----CHLOROETHANE 6 U 75-09-2-----METHYLENE CHLORIDE 34 67-64-1-----ACETONE Ū 75-35-4-----1 1-DICHLOROETHENE 6 75-34-3-----1 1-DICHLOROETHANE 6 U U 6 67-66-3-----CHLOROFORM 6 U 107-06-2----1 2-DICHLOROETHANE U 6 78-93-3----2-BUTANONE 6 U 71-55-6-----1 1 1-TRICHLOROETHANE 6 U 56-23-5-----CARBON TETRACHLORIDE 6 U 75-27-4-----BROMODICHLOROMETHANE 6 U 78-87-5----1 2-DICHLOROPROPANE U 6 79-01-6-----TRICHLOROETHENE U 124-48-1-----DIBROMOCHLOROMETHANE 6 U 6 79-00-5-----1 1 2-TRICHLOROETHANE 6 U 71-43-2----BENZENE 6 U 75-25-2-----BROMOFORM 6 U 108-10-1----4-METHYL-2-PENTANONE U 6 591-78-6----2-HEXANONE 6 U 127-18-4----TETRACHLOROETHENE 6 U 108-88-3-----TOLUENE 79-34-5-----1 1 2 2-TETRACHLOROETHANE U 6 U 6 108-90-7-----CHLOROBENZENE U 6 100-41-4----ETHYL BENZENE U 6 100-42-5----STYRENE U 156-59-2----cis-1 2-DICHLOROETHENE 6 U $156-60-5-----trans-1 2-DICHLOROETHE\overline{NE}$ 6 U 6 13-302-07----m,p-XYLENES U 6 95-47-6-----O-XYLENE U 6 106-93-4-----1 2-DIBROMOETHANE U 6 630-20-6-----1 1 1 2-TETRACHLOROETHANE

09SB117

_ab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C26087.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 18 Date Analyzed: 04/20/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

		
OC 10 4 1 2 2 MD TOUL ODODDODANE	ر	U
96-18-41 2 3-TRICHLOROPROPANE	6	U
75-71-8DICHLORODIFLUOROMETHANE	6	
75-69-4TRICHLOROFLUOROMETHANE	6	U
74-95-3DIBROMOMETHANE	6	Ū
96-12-81 2-DIBROMO-3-CHLOROPROPANE_	6	Ŭ
108-86-1BROMOBENZENE	6	U
104-51-8n-BUTYLBENZENE	6	U
98-06-6tert-BUTYLBENZENE	6	Ū
135-98-8sec-BUTYLBENZENE	6	Ū
95-49-82-CHLOROTOLUENE	6	Ŭ
106-43-44-CHLOROTOLUENE	6	Ū
95-50-11 2-DICHLOROBENZENE	6	Ū
541-73-11 3-DICHLOROBENZENE	6	Ū
106-46-71 4-DICHLOROBENZENE	6	Ŭ
142-28-91 3-DICHLOROPROPANE	6	U
594-20-72 2-DICHLOROPROPANE	6	U
563-58-61 1-DICHLOROPROPENE	6	U
87-68-3HEXACHLOROBUTADIENE	6	U
98-82-8ISOPROPYLBENZENE	6	U
99-87-6p-ISOPROPYLTOLUENE	6	U
91-20-3NAPHTHALENE	6	ט
103-65-1n-PROPYLBENZENE	6	ט
87-61-61 2 3-TRICHLOROBENZENE	6	U
120-82-11 2 4-TRICHLOROBENZENE	6	U
95-63-61 2 4-TRIMETHYLBENZENE	6	Ŭ
108-67-81 3 5-TRIMETHYLBENZENE	6	Ū
74-97-5BROMOCHLOROMETHANE	6	Ū
74-97-3- BROMOCHEDROMETHAM		
		1

ab Name: SWL-TULSA Contract: FORT HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.06

Sample wt/wol: 30.8 (g/mL) G Lab File ID: P15905.D

Sample wt/vol: 30.8 (g/mL) G Lab File ID: P15905.D Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 10 dec. Date Extracted:04/13/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

Q (ug/L or ug/Kg) UG/KG COMPOUND CAS NO. 360 108-95-2----Phenol 360 U 111-44-4----bis(2-Chloroethyl)ether 360 U 95-57-8-----2-Chlorophenol 360 U 541-73-1----1,3-Dichlorobenzene_ U 360 106-46-7-----1,4-Dichlorobenzene U 360 100-51-6----Benzyl alcohol U 360 95-50-1----1,2-Dichlorobenzene_ U 360 95-48-7----2-Methylphenol 360 U 108-60-1-----bis(2-Chloroisopropyl)ether_ U 360 106-44-5----4-Methylphenol U 621-64-7----N-Nitroso-di-n-propylamine_ 360 U 360 67-72-1-----Hexachloroethane___ 360 U 98-95-3-----Nitrobenzene U 360 78-59-1-----Isophorone U 360 88-75-5----2-Nitrophenol U 360 105-67-9----2,4-Dimethylphenol JΒ 270 65-85-0-----Benzoic Acid U 360 111-91-1-----bis(2-Chloroethoxy)methane U 360 120-83-2----2,4-Dichlorophenol U 360 120-82-1-----1,2,4-Trichlorobenzene_ U 360 91-20-3-----Naphthalene 360 U 106-47-8-----4-Chloroaniline U 360 87-68-3-----Hexachlorobutadiene U 360 59-50-7----4-Chloro-3-methylphenol_ U 360 91-57-6----2-Methylnaphthalene U 360 77-47-4-----Hexachlorocyclopentadiene_ U 360 88-06-2----2,4,6-Trichlorophenol U 1700 95-95-4-----2,4,5-Trichlorophenol U 360 91-58-7----2-Chloronaphthalene_ U 1700 88-74-4----2-Nitroaniline U 360 131-11-3-----Dimethylphthalate U 360 208-96-8-----Acenaphthylene U 360 606-20-2----2,6-Dinitrotoluene

ab Name: SWL-TULSA Contract: FORT HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.06

Sample wt/vol: 30.8 (g/mL) G Lab File ID: P15905.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 10 dec. Date Extracted:04/13/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO. 1700 U 99-09-2-----3-Nitroaniline U 360 83-32-9-----Acenaphthene U 360 121-14-2----2,4-Dinitrotoluene_ 1700 U 51-28-5-----2,4-Dinitrophenol__ 1700 U 100-02-7----4-Nitrophenol 360 U 132-64-9-----Dibenzofuran U 360 84-66-2----Diethylphthalate U 7005-72-3----4-Chlorophenyl-phenylether 360 U 360 86-73-7----Fluorene U 1700 100-01-6----4-Nitroaniline U 1700 534-52-1----4,6-Dinitro-2-methylphenol U 360 86-30-6----N-Nitrosodiphenylamine_(1) U 360 101-55-3----4-Bromophenylphenylether___ U 360 118-74-1-----Hexachlorobenzene 1700 U 87-86-5-----Pentachlorophenol U 360 85-01-8-----Phenanthrene U 360 120-12-7-----Anthracene U 360 84-74-2----Di-n-butylphthalate_ U 360 206-44-0----Fluoranthene U 360 129-00-0----Pyrene U 360 85-68-7-----Butylbenzylphthalate U 710 91-94-1----3,3'-Dichlorobenzidine U 360 56-55-3----Benzo(a)anthracene U 360 218-01-9-----Chrysene U 360 117-81-7-----bis(2-Ethylhexyl)phthalate_ U 360 117-84-0----Di-n-octylphthalate U 360 205-99-2----Benzo(b)fluoranthene U 360 207-08-9----Benzo(k)fluoranthene_ U 360 50-32-8-----Benzo(a)pyrene U 360 193-39-5----Indeno(1,2,3-cd)pyrene_ U 360 53-70-3-----Dibenz(a,h)anthracene_ U 360 191-24-2----Benzo(g,h,i)perylene__ U 360 110-86-1-----Pyridine

ab Name: SWL-TULSA

Contract: FORT HOOD

P15905.D

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.06

30.8 (g/mL) G

Lab File ID:

Sample wt/vol:

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec.

10 dec. Date Extracted: 04/13/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 04/21/98

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CONCENTRATION UNITS: CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-94-3-----1,2,4,5-Tetrachlorobenzene

360

U

O9SB117
Sb Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.07

Sample wt/vol: 30.2 (g/mL) G Lab File ID: P15906.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 18 dec. Date Extracted:04/13/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

400 U 108-95-2----Phenol U 400 111-44-4-----bis(2-Chloroethyl)ether_ U 400 95-57-8----2-Chlorophenol U 400 541-73-1----1,3-Dichlorobenzene U 400 106-46-7----1,4-Dichlorobenzene_ 400 U 100-51-6----Benzyl alcohol U 400 95-50-1----1,2-Dichlorobenzene_ U 400 95-48-7----2-Methylphenol U 400 108-60-1-----bis(2-Chloroisopropyl)ether_ U 400 106-44-5----4-Methylphenol U 400 621-64-7----N-Nitroso-di-n-propylamine U 400 67-72-1-----Hexachloroethane U 400 98-95-3-----Nitrobenzene 400 U 78-59-1-----Isophorone U 400 88-75-5----2-Nitrophenol 400 U 105-67-9----2,4-Dimethylphenol_ 280 JB 65-85-0----Benzoic Acid U 400 111-91-1----bis(2-Chloroethoxy)methane_ U 400 120-83-2----2,4-Dichlorophenol U 120-82-1----1,2,4-Trichlorobenzene 400 U 400 91-20-3-----Naphthalene 400 U 106-47-8----4-Chloroaniline U 400 87-68-3-----Hexachlorobutadiene U 400 59-50-7----4-Chloro-3-methylphenol U 400 91-57-6----2-Methylnaphthalene U 400 77-47-4-----Hexachlorocyclopentadiene_ 88-06-2----2,4,6-Trichlorophenol U 400 U 95-95-4----2,4,5-Trichlorophenol_ 1900 U 400 91-58-7----2-Chloronaphthalene 1900 88-74-4----2-Nitroaniline U 400 131-11-3-----Dimethylphthalate U 400 208-96-8-----Acenaphthylene U 606-20-2----2,6-Dinitrotoluene 400

09SB117

ab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.07

Sample wt/vol: 30.2 (g/mL) G Lab File ID: P15906.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 18 dec. Date Extracted:04/13/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q
99-09-2	3-Nitroaniline			1900	ט
	Acenaphthene			400	וט
121-14-2	2,4-Dinitrotol	uene		400	ע
51-28-5	2,4-Dinitrophe	nol		1900	ע
100-02-7	4-Nitrophenol_			1900	וט
132-64-9	Dibenzofuran			400	וט
	Diethylphthala	te		400	ַ
7005-72-3	4-Chlorophenyl	-phenylethe	r	400	ע
86-73-7	Fluorene			400	יט
	4-Nitroaniline			1900	ַ
534-52-1	4,6-Dinitro-2-	methylpheno		1900	ט
86-30-6	N-Nitrosodiphe	nylamine (1)	400	ַ
101-55-3	4-Bromophenylp	henylether		400	U
118-74-1	Hexachlorobenz	ene		400	บ
	Pentachlorophe			1900	บ
	Phenanthrene			400	บ
	Anthracene			400	U
84-74-2	Di-n-butylphth	nalate		400	บ
206-44-0	Fluoranthene			400	U
	Pyrene			400	บ
85-68-7	Butylbenzylpht	halate		400	ט
91-94-1	3,3'-Dichlorob	enzidine		800	บ
56-55-3	Benzo(a)anthra	cene		400	บ
	Chrysene			400	ט
117-81-7	bis(2-Ethylhe	(vl)phthalat	e	400	ע
117-84-0	Di-n-octylpht	nalate		400	ט
205-99-2	Benzo(b)fluor	anthene		400	ט
207-08-9	Benzo(k)fluor	anthene		400	ט
	Benzo(a)pyren			400	ט
193-39-5	Indeno(1,2,3-	cd)pyrene		400	ט
53-70-3	Dibenz(a,h)an	thracene		400	ט
191-24-2	Benzo(g,h,i)p	erylene		400	ט
110-86-1	Pyridine			400	ט
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EPA SAMPLE NO.

09SB117

ab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

(low/med)

Lab Sample ID: 33569.07

Sample wt/vol:

30.2 (g/mL) G

Lab File ID: P15906.D

Date Received: 04/11/98

% Moisture: not dec.

CAS NO.

18 dec. Date Extracted: 04/13/98

Extraction: (SepF/Cont/Sonc)

Level:

SONC

LOW

Date Analyzed: 04/21/98

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.7

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene_

COMPOUND

400

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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

									09	SB116	5
Lab	Name:	SOUTHWEST	LAB	OF OK		Contract	t:SAIC		l		
Lab	Code:	SWOK	_ 7	Jase No	.: 33569	SAS	No.:		SDG	No.:	33569A
		- i 1 / = = 1	CO.	TT			T.ah	Sampla	TD.	2256	:a n6

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Lab Sample ID: 33569.06 Date Received: 04/11/98

_89.5 % Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.1	-		P_
7440-39-3	Barium	7.4			P_
7440-43-9	Cadmium	0.05	ਹ		P_
7440-47-3	Chromium_	9.8	_		P_
7439-92-1	Lead	5.8			P_
7439-97-6	Mercury	0.04			ΑV
7782-49-2	Selenium_	0.25	U	N	F_
7440-22-4	Silver	0.18	U		P_
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Comments:					
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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

					
					09SB117
ΔR.	OF OK	Contr	act · SI	\TC	

Lab Sample ID: 33569.07 Matrix (soil/water): SOIL_ LOW__ _81.6 Level (low/med): Date Received: 04/11/98

% Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

1					1
CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	11.6	-		P
7440-39-3	Barium	29.2	_		P
7440-43-9	Cadmium	0.06	ਹ		P
7440-47-3	Chromium_	19.0	_		P_
7439-92-1	Lead	11.1	_		P_
7439-97-6	Mercury	0.04			ΑV
7782-49-2	Selenium_	0.26	U	WN	F_
7440-22-4	Silver	0.20	ָט		P_
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	Before: After:	BROWN	Clarity E	Before: After:	CLEAR_	Texture: Artifacts:	MEDIUM
Commer	nts:						
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FHSB231

Lab Name: SWL-TULSA Contract: FT. HOOD PH

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.22

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23777.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 18 Date Analyzed: 03/14/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>ug, n o.</u>	- ug/10g/		×
74-87-3	CHLOROMETHANE			6	U
	BROMOMETHANE			6	וט
75-01-4	VINYL CHLORIDE			6	ש
	CHLOROETHANE			6	וט
	METHYLENE CHLORIDE			6	וט
67-64-1				5	J
75-35-4	1 1-DICHLOROETHENE			6	וט
75-34-3				6	ט
	CHLOROFORM			6	ט
107-06-2	1 2-DICHLOROETHANE			6	וט
78-93-3	2-BUTANONE			6	ט
71-55-6	1 1 1-TRICHLOROETHANE			6	ט
56-23-5	CARBON TETRACHLORIDE			6	ש
	BROMODICHLOROMETHANE			6	ט
	1 2-DICHLOROPROPANE			6	ן ט
79-01-6	TRICHLOROETHENE			6	ש
124-48-1	DIBROMOCHLOROMETHANE			6	ן ט
79-00-5	1 1 2-TRICHLOROETHANE			6	ט
71-43-2				6	ָּט
	BROMOFORM			6	ש
108-10-1	4-METHYL-2-PENTANONE			6	ש
	2-HEXANONE			6	ש
127-18-4	TETRACHLOROETHENE			6	ט
108-88-3	TOLUENE			6	וט
79-34-5		NE		6	ע
	CHLOROBENZENE			6	ע
	ETHYL BENZENE			6	ַ ע
	STYRENE			6	ט
156-59-2	cis-1 2-DICHLOROETHENE			6	וט
156-60-5	trans-1 2-DICHLOROETHEN	1E		6	ן ט
	m,p-XYLENES			6	ן ט
95-47-6	O-XYLENE			6	ַ
106-93-4	1 2-DIBROMOETHANE			6	וט
630-20-6		NE		6	ט
030 20 0				-	
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Lab Name: SWL-TULSA Contract: FT. HOOD PH

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.22

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C23777.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 18 Date Analyzed: 03/14/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

26 10 4 1 2 2 MRICHI OPODRODANE	6	ט
96-18-41 2 3-TRICHLOROPROPANE	6	اق
75-71-8DICHLORODIFLUOROMETHANE	6	Ü
75-69-4TRICHLOROFLUOROMETHANE	ı	ש
74-95-3DIBROMOMETHANE	6	ט
96-12-81 2-DIBROMO-3-CHLOROPROPANE_	6	
108-86-1BROMOBENZENE	6	ū
104-51-8n-BUTYLBENZENE	6	ַ
98-06-6tert-BUTYLBENZENE	6	U
135-98-8sec-BUTYLBENZENE	6	ַ
95-49-82-CHLOROTOLUENE	6	ַ
106-43-44-CHLOROTOLUENE	6	ַ
95-50-11 2-DICHLOROBENZENE	6	ַ
541-73-11 3-DICHLOROBENZENE	6	ַ
106-46-71 4-DICHLOROBENZENE	6	ע
142-28-91 3-DICHLOROPROPANE	6	ט
594-20-72 2-DICHLOROPROPANE	6	U
563-58-61 1-DICHLOROPROPENE	6	ש
87-68-3HEXACHLOROBUTADIENE	6	ע
98-82-8ISOPROPYLBENZENE	6	ַ ע
99-87-6p-ISOPROPYLTOLUENE	6	יט
91-20-3NAPHTHALENE	6	ן ט
103-65-1n-PROPYLBENZENE	6	ן ט
87-61-61 2 3-TRICHLOROBENZENE	6	וט
120-82-11 2 4-TRICHLOROBENZENE	6	ט
95-63-61 2 4-TRIMETHYLBENZENE	6	ט
108-67-81 3 5-TRIMETHYLBENZENE	6	ט
74-97-5BROMOCHLOROMETHANE	6	ŭ
/4-3/-3 BROMOCHEOROMETHERE		
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FHSB231

Contract: FT.HOOD Tab Name: SWL-TULSA

SDG No.: 28743 SAS No.: Case No.: SAIC __b Code: SWOK

Lab Sample ID: 28743.22 Matrix: (soil/water) SOIL

Lab File ID: M5122.D 30.0 (g/mL) GSample wt/vol:

Date Received: 03/07/97 LOW (low/med) Level:

Date Extracted: 03/07/97 dec. % Moisture: not dec. 18

Date Analyzed: 03/12/97 Extraction: (SepF/Cont/Sonc) SONC

1000(uL) Concentrated Extract Volume:

Dilution Factor: 1.0 pH: 7.8 (Y/N)N

GPC Cleanup:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q CAS NO. COMPOUND

CAS NO.	COMPOUND (dg/L Of dg/		× .
108-95-2	Phonol	400	U
108-95-2	bis(2-Chloroethyl)ether	400	ט
05-57-0	2-Chlorophenol	400	ן ט
93-3/-0	1 3-Dichlorobenzene	400	ט
106 46-7	1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl alcohol	400	ן ט
100-40-7	Benzyl alcohol	400	וט
05-50-1	1,2-Dichlorobenzene	400	ט
95-50-1	2-Methylphenol	400	ַ ט
100-60-1	bis(2-Chloroisopropyl)ether_	400	ע
106-60-1	4-Methylphenol	400	וט
621-64-7	N-Nitroso-di-n-propylamine	400	וט
67-72-1	Hexachloroethane	400	ַט
07-72-1	Nitrobenzene	400	וט
	Isophorone	400	ט
70-39-1	2-Nitrophenol	400	ן ט
105-67-0	2,4-Dimethylphenol	400	וט
65-95-0	Benzoic Acid	2000	ַ ט
111-01-1	bis(2-Chloroethoxy)methane	400	ן ט
120-93-2	2,4-Dichlorophenol	400	ש
120-03-2	1,2,4-Trichlorobenzene	400	U
01-20-3	Naphthalene	400	ט
106-47-9	4-Chloroaniline	400	ט
07-69-3	Hexachlorobutadiene	400	ט
50-50-7	4-Chloro-3-methylphenol	400	ט
01-57-6	2-Methylnaphthalene	400	ש
77-47-4	Hexachlorocyclopentadiene	400	ט
77-47-4	2,4,6-Trichlorophenol	400	ប
05-05-4	2,4,5-Trichlorophenol	2000	U
93-93-4	2-Chloronaphthalene	400	บ
91-30-7	2-Nitroaniline	2000	ប
121_11_2	Dimethylphthalate	400	ט
121-11-3	Acenaphthylene	400	ט
208-30-3	2,6-Dinitrotoluene	400	ע
000-20-2	Z, 0 Diniciocolacino		
		. 1	

FHSB231

Contract: FT.HOOD b Name: SWL-TULSA

SDG No.: 28743 Lab Code: SWOK Case No.: SAIC SAS No.:

Lab Sample ID: 28743.22 Matrix: (soil/water) SOIL

Lab File ID: M5122.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 03/07/97 Level: (low/med) LOW

Date Extracted: 03/07/97 dec. % Moisture: not dec. 18

Date Analyzed: 03/12/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 7.8

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/	Kg) UG/KG	Q .
99-09-2	3-Nitroaniline	2	2000	U
02-22-0	Acenaphthene		400	1
121-14-2	2,4-Dinitroto	luene	400	Ü
51-28-5	2,4-Dinitrotol	enol	2000	ŭ
100-02-7	4-Nitrophenol		2000	Ü
100 (10			400	מ
84-66-2	Diethylphthala	ate	400	וט
7005-72-3	4-Chloropheny	l-phenylether	400	ט
96-73-7	Fluorene	-	400	ע ויי
100-01-6	4_Nitroaniline	9	2000	ַ
	1 6-Dinitro-2	-mernvrbhenor i	2000	ַ
06 20 6	N_Nitrosodipno	enviamine (i)	400	וט
86-30-6	4-Bromophenyl	phenylether	400	ע
1101-55-5	Hexachloroben	zene	400	ע
118-74-1	Pentachloroph	enol	2000	U
87-86-5	Phenanthrene_		400	U
85-01-8	Anthracene		400	ט
120-12-7	Di-n-butylpht	halate	400	וט
84-/4-2	Fluoranthene_		400	ע
206-44-0	Prizono		400	ן ט
129-00-0	putulbongylph	thalate	400	וט
85-68-/	Butylbenzylph	benzidine	800	וט
91-94-1	3,3'-Dichloro	acene	400	וט
56-55-3	Benzo(a)anthr	acene	400	ט
218-01-9	Chrysene	l\nhthalate	400	שו
117-81-7	bis(2-Ethylhe	balata	400	וט
117-84-0	Di-n-octylpht	natace	400	U
205-99-2	Benzo(b)fluor	anthene	400	Ū
207-08-9	Benzo(k)fluor	anthene	400	บ
50-32-8	Benzo(a)pyren	le	400	Ū
103-30-5	Tndeno(1,2,3-	ca)pyrene	400	บี
53-70-3	Dibenz(a,n)an	thracene	400	Ü
191-24-2	Benzo(g,h,1)[erylene	400	บี
110-86-1	Pyridine		400	ا ۱
			l	ll

FHSB231

Tab Name: SWL-TULSA

Contract: FT.HOOD

⊥ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.22

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: M5122.D

(low/med)

Date Received: 03/07/97

Level:

% Moisture: not dec.

dec. 18

Date Extracted: 03/07/97

Extraction: (SepF/Cont/Sonc)

SONC

LOW

Date Analyzed: 03/12/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene_

400

U

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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Lab Name: SOUTH Lab Code: SWOK_ Matrix (soil/wa Level (low/med) % Solids:	LOW _82.4	1		Date Rece	74322 SDG No.: 28743A e ID: 28743.22 ived: 03/07/97
Cor	ncentration	Units (ug	/L or mg/kg dry	weight):	MG/KG
	CAS No.	Analyte	Concentration		M
	7440-39-3 7440-43-9	Arsenic Barium Cadmium	4.1 48.8 0.11	B*	P_ P_
	7439-92-1 7439-97-6		12.4 7.4 0.04 1.3	U	P_ P_ AV F
	7782-49-2 7440-22-4	Silver	0.21		P_ -
Color Before: Color After:	BROWN	Clari Clari	ty Before:		Texture: MEDIUM Artifacts:
Comments: CLIENT_ID_=	FHSB231				

FORM I - IN

ILM02.1

FHGW103

Lab Name: SWL-TULSA Contract: FT HOOD

Lai Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28160

Matrix: (soil/water) WATER Lab Sample ID: 28160.03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K17488.D

Level: (low/med) LOW Date Received: 01/15/97

% Moisture: not dec. Date Analyzed: 01/20/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

C110 110.	COMPOSIND	(49/2 01 49/119		×
74-83-9 75-01-4 75-09-2 67-64-1 75-35-4 75-34-3 67-66-3 107-06-2 78-93-3 75-27-4 75-27-4 79-01-6 79-01-6 71-43-2 71-43-2 75-25-2 108-10-1 127-18-4 108-88-3 108-90-7 108-90-7 100-41-4 100-42-5 156-59-2 156-60-5	1 1-DICHLOROETHENE1 1-DICHLOROETHANECHLOROFORM1 2-DICHLOROETHANE2-BUTANONE1 1 1-TRICHLOROETHANECARBON TETRACHLORIDEBROMODICHLOROMETHANE1 2-DICHLOROPROPANETRICHLOROETHENEDIBROMOCHLOROMETHANE1 1 2-TRICHLOROETHANEBENZENEBROMOFORM4-METHYL-2-PENTANONE2-HEXANONE2-HEXANONETETRACHLOROETHENETOLUENETOLUENETOLUENECHLOROBENZENECHLOROBENZENESTYRENECIS-1 2-DICHLOROETHENE	HANE	5555455555555555555555555555	רממממממממממממממממממ ממממ
156-59-2 156-60-5 13-302-07 95-47-6 106-93-4	cis-1 2 <u>-DICHLOROETHEN</u> trans-1 2-DICHLOROETH m,p-XYLENES	ENE	5 5	U U

FHGW103

_ab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28160

Matrix: (soil/water) WATER Lab Sample ID: 28160.03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K17488.D

Level: (low/med) LOW Date Received: 01/15/97

Moisture: not dec. _____ Date Analyzed: 01/20/97

Jolumn: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

		
96-18-41 2 3-TRICHLOROPROPANE	5	IJ
75-71-8DICHLORODIFLUOROMETHANE	5	IJ
75-69-4TRICHLOROFLUOROMETHANE	5	IJ
74-95-3DIBROMOMETHANE	5	IJ
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	Ü
_	5	บ
108-86-1BROMOBENZENE	5	-
104-51-8n-BUTYLBENZENE		Ŭ
98-06-6tert-BUTYLBENZENE	5	Ū
135-98-8sec-BUTYLBENZENE	5	Ū
95-49-82-CHLOROTOLUENE	5	U
106-43-44-CHLOROTOLUENE	5	U
95-50-11 2-DICHLOROBENZENE	5	U
541-73-11 3-DICHLOROBENZENE	5	U
106-46-71 4-DICHLOROBENZENE	5	U
142-28-91 3-DICHLOROPROPANE	5	U
594-20-72 2-DICHLOROPROPANE	5	U
563-58-61 1-DICHLOROPROPENE	5	U
87-68-3HEXACHLOROBUTADIENE	5	U
98-82-8ISOPROPYLBENZENE	5	U
99-87-6p-ISOPROPYLTOLUENE	5	U
91-20-3NAPHTHALENE	5	U
103-65-1n-PROPYLBENZENE	5	U
87-61-61 2 3-TRICHLOROBENZENE	5	ט ו
120-82-11 2 4-TRICHLOROBENZENE	5	U
95-63-61 2 4-TRIMETHYLBENZENE	5	Ū
108-67-81 3 5-TRIMETHYLBENZENE	5	Ū
74-97-5BROMOCHLOROMETHANE	- 5	l ü
DROMOCHILOROMITHMAN	.	
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FHGW103

Contract: FT. HOOD Tab Name: SWL-TULSA

SDG No.: 28160 Lai Code: SWOK Case No.: SAIC SAS No.:

Lab Sample ID: 28160.03 Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T20192.D

Date Received: 01/15/97 Level: (low/med) LOW

Date Extracted:01/15/97 % Moisture: not dec. 0 dec.

Date Analyzed: 01/21/97 Extraction: (SepF/Cont/Sonc) CONT

Commentated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GFC Cleanup: (Y/N) N pH: 6.7

CONCENTRATION UNITS:

FHGW103

ab Name: SWL-TULSA Contract: FT. HOOD

_db Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28160

Matrix: (soil/water) WATER Lab Sample ID: 28160.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T20192.D

Level: (low/med) LOW Date Received: 01/15/97

% Moisture: not dec. 0 dec. Date Extracted:01/15/97

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/21/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

50 99-09-2----3-Nitroaniline 10 U 83-32-9-----Acenaphthene 10 U 121-14-2----2,4-Dinitrotoluene_ 50 U 50 U 10 U 132-64-9-----Dibenzofuran U 10 84-66-2-----Diethylphthalate 7005-72-3----4-Chlorophenyl-phenylether 10 U 10 U 86-73-7-----Fluorene U 50 100-01-6----4-Nitroaniline 50 U 534-52-1----4,6-Dinitro-2-methylphenol_ 10 U 86-30-6----N-Nitrosodiphenylamine_(1)_ U 101-55-3----4-Bromophenylphenylether 10 U 10 118-74-1-----Hexachlorobenzene U 87-86-5----Pentachlorophenol 50 U 10 85-01-8-----Phenanthrene U 10 120-12-7-----Anthracene 10 U 84-74-2----Di-n-butylphthalate U 10 206-44-0----Fluoranthene 10 U 129-00-0-----Pyrene U 10 85-68-7-----Butylbenzylphthalate U 20 91-94-1----3,3'-Dichlorobenzidine U 56-55-3-----Benzo(a)anthracene 10 U 10 218-01-9-----Chrysene U 10 117-81-7-----bis(2-Ethylhexyl)phthalate__ U 10 117-84-0----Di-n-octylphthalate_ U 10 205-99-2----Benzo(b)fluoranthene_ U 10 207-08-9----Benzo(k)fluoranthene U 10 50-32-8-----Benzo(a)pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene_ 10 U 53-70-3----Dibenz(a,h)anthracene___ U 10 191-24-2----Benzo(g,h,i)perylene____ U 10 110-86-1-----Pyridine

FHGW103

Tab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 28160

Matrix: (soil/water) WATER

Lab Sample ID: 28160.03

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: T20192.D

Level: (low/med)

LOW

Date Received: 01/15/97

% Moisture: not dec.

dec.

Date Extracted: 01/15/97

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 01/21/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 6.7

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

Q

U

95-94-3----1,2,4,5-Tetrachlorobenzene_

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1 INORGANIC ANALYSES DATA SHEET

SAMPLE	

	Į.	NORGANIC A	ANALYSES DATA S	HEET	,
Lab Na~= · SOUTH	WEST LAB OF	. Ok	Contract: SA	ATC	16003
Lab Name: SOUTH Lab Code: SWOK_ Matrix soil/wa Level low/med) % Solids:	ter): WATER	2	SAS No.:	Lab Samp.	SDG No.: 28160B le ID: 28160.03 eived: 01/15/97
Con	centration	Units (ug,	/L or mg/kg dry	y weight)	: UG/L_
	CAS No.	Analyte	Concentration	C Q	М
	7440-39-3 7440-43-9 7440-47-3	Chromium_ Lead_ Mercury_ Selenium_	1.4 15.8 0.50 0.80 1.7 0.10 2.8 1.2	UU	P_ P_ P_ P_ P_ AV F_ P
i.					
Color Before: Color After:			ity Before: CLI ity After: CLI	EAR_ EAR_	Texture: Artifacts:
Comments: CLIENT_ID:_ FHGW103					

FORM I - IN

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EPA SAMPLE NO.

09SB118

Lab Name: SWL-TULSA Contract: FT HOOT

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29702.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 9 Date Analyzed: 05/12/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	ug/II OI	ug/11g/	00,10	~
74-87-3	CHLOROMETHANE			5	ט
	BROMOMETHANE			5	וט
	VINYL CHLORIDE			5	וט
	CHLOROETHANE			5	וט
	METHYLENE CHLORIDE			5	וט
	ACETONE			5	וט
	1 1-DICHLOROETHENE			5	וט
75-34-3	1 1-DICHLOROETHANE			5	ט
	CHLOROFORM			5	U
107-06-2	1 2-DICHLOROETHANE			5	ַ ט
	2-BUTANONE			5	U
71-55-6	1 1 1-TRICHLOROETHANE			5	U
56-23-5	CARBON TETRACHLORIDE			5	ַ ד
75-27-4	BROMODICHLOROMETHANE			5	U
78-87-5	1 2-DICHLOROPROPANE			5	U
79-01-6	TRICHLOROETHENE			5	U
124-48-1	DIBROMOCHLOROMETHANE			5	U
79-00-5	1 1 2-TRICHLOROETHAN \overline{E}			5	U
	BENZENE			5	U
	BROMOFORM			5	U
108-10-1	4-METHYL-2-PENTANONE			5	U
	2-HEXANONE			5	U
	TETRACHLOROETHENE			5	U
108-88-3	TOLUENE			5	Ŭ
79-34-5	1 1 2 2-TETRACHLOROETHA	ANE		5	U
108-90-7	CHLOROBENZENE			5	U
	ETHYL BENZENE			5	U
	STYRENE			5	Ū
	cis-1 2-DICHLOROETHENE			5	U
	trans-1 2-DICHLOROETHE	NE		5	Ŭ
	m,p-XYLENES			5	U
95-47-6	XYLENE			5	U
106-93-4	1 2-DIBROMOETHANE			5	U
630-20-6	1 1 1 2-TETRACHLOROETH	ANE		5	U

EPA SAMPLE NO.

09SB118

Lab Name: SWL-TULSA Contract: FT HOOT

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29702.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 9 Date Analyzed: 05/12/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	5	ש
75-71-8DICHLORODIFLUOROMETHANE	5	וט
75-69-4TRICHLOROFLUOROMETHANE	5	Ū
74-95-3DIBROMOMETHANE	5	Ū
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	Ŭ
108-86-1BROMOBENZENE	5	Ü
104-51-8n-BUTYLBENZENE	5	บ
98-06-6tert-BUTYLBENZENE	5	ŭ
135-98-8sec-BUTYLBENZENE	5	Ü
95-49-82-CHLOROTOLUENE	5	Ü
106-43-44-CHLOROTOLUENE	5	וֹט
95-50-11 2-DICHLOROBENZENE	5	ן ט
541-73-11 3-DICHLOROBENZENE	5	וט
106-46-71 4-DICHLOROBENZENE	5	Ü
142-28-91 3-DICHLOROPROPANE	5	<u>ט</u>
594-20-72 2-DICHLOROPROPANE	5	ָ ע
563-58-61 1-DICHLOROPROPENE	5	Ü
87-68-3HEXACHLOROBUTADIENE	5	וֹט
	5	וט
98-82-8ISOPROPYLBENZENE	5	υ
99-87-6p-ISOPROPYLTOLUENE	5	Ŭ
91-20-3NAPHTHALENE	5	Ü
103-65-1n-PROPYLBENZENE	5	Ü
87-61-61 2 3-TRICHLOROBENZENE		ָ ט
120-82-11 2 4-TRICHLOROBENZENE	5	ט
95-63-61 2 4-TRIMETHYLBENZENE		υ
108-67-81 3 5-TRIMETHYLBENZENE	5	
74-97-5BROMOCHLOROMETHANE	5	U
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09SB118

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.01

Sample wt/vol: 30.2 (g/mL) G Lab File ID: P16196.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 9 dec. Date Extracted:05/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.1 Dilution Factor: 1.0

CONCENTRATION UNITS:

108-95-2
· 1

Lab Name: SWL-TULSA Contract: FORT HOOD 09SB118

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.01

Sample wt/vol: 30.2 (g/mL) G Lab File ID: P16196.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 9 dec. Date Extracted:05/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.1 Dilution Factor: 1.0

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CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/kg) UG/kG

EPA SAMPLE NO.

09SB118

Contract: FORT HOOD Lab Name: SWL-TULSA

SDG No.: 33894 SAS No.: Case No.: SAIC Lab Code: SWOK

Lab Sample ID: 33894.01 Matrix: (soil/water) SOIL

Lab File ID: P16196.D 30.2 (g/mL) G Sample wt/vol:

Date Received: 05/08/98 (low/med) LOW Level:

Date Extracted: 05/08/98 % Moisture: not dec. 9 dec.

Date Analyzed: 05/12/98 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 9.1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q COMPOUND CAS NO.

360 U 95-94-3-----1,2,4,5-Tetrachlorobenzene_

1 INORGANIC ANALYSES DATA SHEET

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Lab Name: SOUTH	וא בא האדינייי לאם	F OV	Contract · SAl	r C		""	
Lab Name: South	ME21-THE	- X - 33	CAC No.			SDG No.:	220047
Lab Code: SWOK_Matrix (soil/wa	Cas	se No.: 330	SAS NO.	·		J- TD 330	33034A
Matrix (soil/wa	ater): SOIL	_		Lа		le ID: 338	
Level (low/med)	: LOW			Da	te Rec	eived: 05/	08/98
% Solids:	_90.	7					
· borrab.	_, .	•					
G		TTm + + = /22 ==	/I or ma/ka dm	P T.T	eight)	. MC/KC	
Cor	icentration	Units (ug)	/L or mg/kg dry	, w	ergnc,	. MG/ NG	
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	CAS No.	Analyte	Concentration	C	Q	M	
		Ī				1 1	
	7440-38-2	Argenic	6.8	1-1		P	
	7440-39-3		3.8	1-1	E	· D -	
			0.03	==		- 5-	
	7440-43-9	Cadmium_	0.03	101		P P P P	
	7440-47-3	Chromium_	3.4	1_1		. P_	
	7439-92-1	Lead	4.8	1		P	
	7439-97-6		0.04	١ij		AV	
		Selenium		TT	N	F	
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	7440-22-4	Silver	0.13	١٠١		- -	
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Galam Defere	DDOWN	Clar	ity Refore:			Texture:	MEDIUM

	Before: After:	YELLOW	Clarity		 Artifacts:	
Comme	nts:			_		
			HODE	A T TRI		

ab Name: SWL-TULSA Contract: FT HOOT

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29703.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 7 Date Analyzed: 05/12/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

EPA SAMPLE NO.

09SB119

Lab Name: SWL-TULSA Contract: FT HOOT

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29703.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 7 Date Analyzed: 05/12/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE 75-71-8DICHLORODIFLUOROMETHANE	5	U U
75-69-4TRICHLOROFLUOROMETHANE	5	Ū
74-95-3DIBROMOMETHANE	5	Ū
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	Ū
108-86-1BROMOBENZENE	5	Ū
104-51-8n-BUTYLBENZENE	5	Ū
98-06-6tert-BUTYLBENZENE	5	Ū
135-98-8sec-BUTYLBENZENE	5	Ū
95-49-82-CHLOROTOLUENE	5	U
106-43-44-CHLOROTOLUENE	5	U
95-50-11 2-DICHLOROBENZENE	5	U
541-73-11 3-DICHLOROBENZENE	5	Ŭ
106-46-71 4-DICHLOROBENZENE	5	U
142-28-91 3-DICHLOROPROPANE	5 5	U
594-20-72 2-DICHLOROPROPANE	5	U
563-58-61 1-DICHLOROPROPENE	5	U
87-68-3HEXACHLOROBUTADIENE	5	U
98-82-8ISOPROPYLBENZENE	5	U
99-87-6p-ISOPROPYLTOLUENE	5	ע
91-20-3NAPHTHALENE	5	U
103-65-1n-PROPYLBENZENE	5	U
87-61-61 2 3-TRICHLOROBENZENE	5	U
120-82-11 2 4-TRICHLOROBENZENE	5	ט
95-63-61 2 4-TRIMETHYLBENZENE	5	U
108-67-81 3 5-TRIMETHYLBENZENE	. 5	U
74-97-5BROMOCHLOROMETHANE	5	U

09SB119

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.02

Sample wt/vol: 30.1 (g/mL) G Lab File ID: P16197.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 7 dec. Date Extracted:05/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

Lab Name: SWL-TULSA Contract: FORT HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.02

Sample wt/vol: 30.1 (g/mL) G Lab File ID: P16197.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 7 dec. Date Extracted:05/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

EPA SAMPLE NO.

09SB119

Lab Name: SWL-TULSA Contract: FORT HOOD

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Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33894

Matrix: (soil/water) SOIL Lab Sample ID: 33894.02

Sample wt/vol: 30.1 (g/mL) G Lab File ID: P16197.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. 7 dec. Date Extracted:05/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/kg) UG/kG

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

95-94-3-----1,2,4,5-Tetrachlorobenzene____ 350 U

1 INORGANIC ANALYSES DATA SHEET

CLIENT	SAMPLE	IJ
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			09SB119
Lab Name: SOUTHWES	T LAB OF OK	Contract:SAIC	
Lab Code: SWOK	Case No.:		SDG No.: 33894A
Matrix (soil/water): SOIL		ample ID: 33894.02
Level (low/med):	LOW	Date	Received: 05/08/98
% Solids:	93.1		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic_	11.7			<u>P_</u>
7440-39-3	Barium	16.0		E	P_
7440-43-9	Cadmium_	0.03	ਹ		P_
7440-47-3	Chromium_	15.2	$ _ $		P_
7439-92-1	Lead	15.4			P_
7439-97-6	Mercury	0.04			ΑV
7782-49-2	Selenium	1.1	U	WN	F_
7440-22-4	Silver	0.12	U		P_
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Color Before: Color After:	BROWN	Clarity Before: Clarity After:	Texture: MEDIUM Artifacts:
Comments:			

09PZ101

Jab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34224

Matrix: (soil/water) WATER Lab Sample ID: 34224.10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL5219.D

Level: (low/med) LOW Date Received: 06/03/98

% Moisture: not dec. Date Analyzed: 06/05/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
AS NO. COMPOUND (ug/L or ug/Kg) UG/L

0 CAS NO. 74-87-3------CHLOROMETHANE TI U 74-83-9-----BROMOMETHANE U 75-01-4-----VINYL CHLORIDE U 75-00-3-----CHLOROETHANE 5 U 75-09-2----METHYLENE CHLORIDE 5 U 67-64-1-----ACETONE U 75-35-4-----1 1-DICHLOROETHENE 5 U 75-34-3-----1 1-DICHLOROETHANE 5 U 67-66-3------CHLOROFORM 5 U 107-06-2----1 2-DICHLOROETHANE 5 U 78-93-3----2-BUTANONE 5 U 71-55-6-----1 1 1-TRICHLOROETHANE 5 U 56-23-5-----CARBON TETRACHLORIDE 5 75-27-4-----BROMODICHLOROMETHANE U 5 U 78-87-5----1 2-DICHLOROPROPANE 5 U 79-01-6-----TRICHLOROETHENE 5 U 124-48-1-----DIBROMOCHLOROMETHANE 5 U 79-00-5-----1 1 2-TRICHLOROETHANE 5 U 71-43-2-----BENZENE 5 U 75-25-2----BROMOFORM 5 5 5 5 5 U 108-10-1-----4-METHYL-2-PENTANONE 591-78-6----2-HEXANONE U 127-18-4-----TETRACHLOROETHENE U U 108-88-3-----TOLUENE 79-34-5-----1 1 2 2-TETRACHLOROETHANE U 5 U 108-90-7-----CHLOROBENZENE U 100-41-4----ETHYL BENZENE U 100-42-5----STYRENE 156-59-2----cis-1 2-DICHLOROETHENE U U 156-60-5-----trans-1 2-DICHLOROETHENE 5 IJ 13-302-07----m,p-XYLENES 5 U 95-47-6------XYLENE 5 106-93-4-----1 2-DIBROMOETHANE U U 630-20-6-----1 1 1 2-TETRACHLOROETHANE

EPA SAMPLE NO.

09PZ101

SDG No.: 34224

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: 34224.10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL5219.D

Level: (low/med) LOW Date Received: 06/03/98

% Moisture: not dec. _____ Date Analyzed: 06/05/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

09PZ101

Lab Name: SWL-TULSA Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34224

Matrix: (soil/water) WATER Lab Sample ID: 34224.10

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P16421.D

Level: (low/med) LOW Date Received: 06/03/98

% Moisture: not dec. 0 dec. Date Extracted:06/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg	() UG/L	Q
108-95-2	Phenol		10	U
111-44-4	bis(2-Chloroe	ethyl)ether	10	U
95-57-8	2-Chloropheno	ol I	10	ע
541-73-1	1,3-Dichloro	penzene	10	ט
106-46-7	1,4-Dichlorob	penzene	10	ע
100-51-6	Benzyl alcoho	ol	10	ַט
95-50-1	1,2-Dichloro	penzene	10	U
95-48-7	2-Methylpheno	ol	10	ן ט
108-60-1	bis(2-Chloro	isopropyl)ether	10	ן ט
106-44-5	4-Methylpheno	ol	10	U
621-64-7	N-Nitroso-di	-n-propylamine	10	ן ט
67-72-1	Hexachloroet	hane	10	ט
98-95-3	Nitrobenzene		10	ן ט
78-59-1	Isophorone		10	U
88-75-5	2-Nitropheno	1	10	U
105-67-9	2,4-Dimethyl	phenol	10	U
65-85-0	Benzoic Acid		5	J
111-91-1	bis(2-Chloro	ethoxy)methane	10	U
120-83-2	2,4-Dichloro	phenol	10	U
120-82-1	1,2,4-Trichl	orobenzene	10	ן ט
91-20-3	Naphthalene_		10	ן ט
106-47-8	4-ChloroaniT	ine	10	υl
87-68-3	Hexachlorobu	tadiene	10	ע
59-50-7	4-Chloro-3-m	ethylphenol	10	U
91-57-6	2-Methylnaph	thalene	10	U
77-47-4	Hexachlorocy	clopentadiene	10	ע
88-06-2	2,4,6-Trichl	orophenol	10	ַ װ
95-95-4	2,4,5-Trichl	orophenol	50	U
91-58-7	2-Chloronaph	thalene	10	ן ט
88-74-4	2-Nitroanili	ne	50	ן ט
131-11-3	Dimethylphth	alate	10	U
208-96-8	Acenaphthyle	ne	10	U
606-20-2	2,6-Dinitrot	oluene	10	U
200 20 2				

09PZ101

Lab Name: SWL-TULSA Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34224

Matrix: (soil/water) WATER Lab Sample ID: 34224.10

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P16421.D

Level: (low/med) LOW Date Received: 06/03/98

% Moisture: not dec. 0 dec. Date Extracted:06/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND (ug/L or ug/kg)) UG/L	<u> </u>
00 00 3	3-Nitroaniline	50	U
99-09-2	Acenaphthene	10	ט
121-14-2	2,4-Dinitrotoluene	10	וט
121-14-2	2,4-Dinitrophenol	50	U
100 00 7	4-Nitrophenol	50	U
100-02-7	4-Nitrophenol	10	Ū
132-64-9	Dibenzofuran	10	ט
84-66-2	Diethylphthalate	10	Ū
7005-72-3	4-Chlorophenyl-phenylether	10	Ū
86-73-7	Fluorene	50	Ü
100-01-6	4-Nitroaniline	50	บ็
534-52-1	4,6-Dinitro-2-methylphenol	10	ี บ
86-30-6	N-Nitrosodiphenylamine_(1)	10	บ็
101-55-3	4-Bromophenylphenylether	10	ָ ט
118-74-1	Hexachlorobenzene	50	บ
87-86-5	Pentachlorophenol	10	บ
85-01-8	Phenanthrene	10	Ü
120-12-7	Anthracene	10	Ü
84-74-2	Di-n-butylphthalate	10	ָ ט
	Fluoranthene	10	บ
129-00-0	Pyrene		
85-68-7	Butylbenzylphthalate	10	Ŭ
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	ת ע
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	ַ
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	10	U
110 00 1			
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09PZ101

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34224

Matrix: (soil/water) WATER

Lab Sample ID: 34224.10

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

P16421.D

Level:

(low/med) LOW Date Received: 06/03/98

% Moisture: not dec.

0 dec. Date Extracted:06/04/98

Extraction: (SepF/Cont/Sonc)

CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

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INORGANIC ANALYSES DATA SHEET

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				09PZ101
ī.ah	Name:	SOUTHWEST_LAB_OF_C	OK Contract:SAIC	
حد	110		CAC NO	CDC No . 24224

Lab Code: SWOK____ Case No.: 34224 SAS No.:

SDG No.: 34224_ Lab Sample ID: 34224.10

Matrix (soil/water): WATER Level (low/med): LOW_

Date Received: 06/03/98

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): $UG/L_{_}$

					 ,
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	2.9	ਹ		P_
7440-39-3	Barium	113 0.30	ਹ		P_ P
7440-43-9 7440-47-3	Cadmium	15.8			P-
7439-92-1	Lead	7.9			P
7439-97-6	Mercury	0.10	Ū	WN	ΑV
7782-49-2 7440-22-4	Selenium_ Silver	2.2	U B	wn	F_
7440-22-4	STIVET		احا		-
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Comme	nts:						
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09PZ102

hab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34250

Matrix: (soil/water) WATER Lab Sample ID: 34250.05

Lab File ID: UL5256.D Sample wt/vol: 5.0 (g/mL) ML

Date Received: 06/04/98

Level: (low/med) LOW Date Analyzed: 06/11/98 % Moisture: not dec. _____

Dilution Factor: 1.0

Column: (pack/cap) CAP

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

74-87-3	×
74-83-9BROMOMETHANE 5 75-01-4VINYL CHLORIDE 5 75-00-3CHLOROETHANE 5 75-09-2METHYLENE CHLORIDE 5 67-64-1ACETONE 5 75-35-41 1-DICHLOROETHENE 5 75-34-31 1-DICHLOROETHANE 5 67-66-3	U
75-01-4VINYL CHLORIDE 5 75-00-3CHLOROETHANE 5 75-09-2METHYLENE CHLORIDE 5 67-64-1ACETONE 5 75-35-41 1-DICHLOROETHENE 5 75-34-31 1-DICHLOROETHANE 5 67-66-3	Ū
75-00-3	Ū
75-09-2METHYLENE CHLORIDE 5 67-64-1ACETONE 5 75-35-41 1-DICHLOROETHENE 5 75-34-31 1-DICHLOROETHANE 5 67-66-3	Ū
67-64-1	Ū
75-35-41 1-DICHLOROETHENE 75-34-31 1-DICHLOROETHANE 67-66-3	Ū
75-34-31 1-DICHLOROETHANE 5 67-66-3	Ŭ
67-66-3	Ū
107-06-21 2-DICHLOROETHANE 78-93-32-BUTANONE 5 71-55-61 1 1-TRICHLOROETHANE 56-23-5CARBON TETRACHLORIDE 75-27-4BROMODICHLOROMETHANE 5 78-87-51 2-DICHLOROPROPANE 79-01-6TRICHLOROETHENE 5 124-48-1DIBROMOCHLOROMETHANE 5 79-00-51 1 2-TRICHLOROETHANE 71-43-2BENZENE 5 75-25-2BROMOFORM 5 108-10-14-METHYL-2-PENTANONE 5 591-78-62-HEXANONE 5	Ū
78-93-3	Ū
71-55-6	Ū
56-23-5CARBON TETRACHLORIDE 5 75-27-4BROMODICHLOROMETHANE 5 78-87-51 2-DICHLOROPROPANE 5 79-01-6TRICHLOROETHENE 5 124-48-1DIBROMOCHLOROMETHANE 5 79-00-51 1 2-TRICHLOROETHANE 5 71-43-2BENZENE 5 75-25-2BROMOFORM 5 108-10-14-METHYL-2-PENTANONE 5 591-78-62-HEXANONE 5	Ū
75-27-4BROMODICHLOROMETHANE 78-87-51 2-DICHLOROPROPANE 79-01-6TRICHLOROETHENE 124-48-1DIBROMOCHLOROMETHANE 79-00-51 1 2-TRICHLOROETHANE 71-43-2BENZENE 75-25-2BROMOFORM 508-10-14-METHYL-2-PENTANONE 591-78-62-HEXANONE 5	Ū
78-87-51 2-DICHLOROPROPANE 5 79-01-6TRICHLOROETHENE 5 124-48-1DIBROMOCHLOROMETHANE 5 79-00-51 1 2-TRICHLOROETHANE 5 71-43-2BENZENE 5 75-25-2BROMOFORM 5 108-10-14-METHYL-2-PENTANONE 5 591-78-62-HEXANONE 5	Ū
79-01-6TRICHLOROETHENE 124-48-1DIBROMOCHLOROMETHANE 79-00-51 1 2-TRICHLOROETHANE 71-43-2BENZENE 75-25-2BROMOFORM 108-10-14-METHYL-2-PENTANONE 591-78-62-HEXANONE	Ü
124-48-1	Ü
79-00-5	Ü
71-43-2BENZENE 75-25-2BROMOFORM 5 108-10-14-METHYL-2-PENTANONE 5 591-78-62-HEXANONE 5	Ū
75-25-2BROMOFORM 5 108-10-14-METHYL-2-PENTANONE 5 591-78-62-HEXANONE 5	Ū
108-10-14-METHYL-2-PENTANONE5 591-78-62-HEXANONE5	U
591-78-62-HEXANONE 5	U
127-18-4TETRACHLOROETHENE	U
108-88-3	U
79-34-5	U
108-90-7CHLOROBENZENE 5 100-41-4ETHYL BENZENE 5 100-42-5STYRENE 5 156-59-2cis-1 2-DICHLOROETHENE 5	U
100-41-4ETHYL BENZENE	U
100-42-5STYRENE 5 156-59-2cis-1 2-DICHLOROETHENE 5	Ü
156-59-2cis-1 2-DICHLOROETHENE 5	U
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156-60-5trans-1 2-DICHLOROETHENE 5	Ţ
13-302-07m,p-XYLENES	Ū
95-47-6	Ţ
106-93-41 2-DIBROMOETHANE 5	Ţ
630-20-61 1 1 2-TETRACHLOROETHANE 5	Ţ
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EPA SAMPLE NO.

09PZ102

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34250

Matrix: (soil/water) WATER Lab Sample ID: 34250.05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL5256.D

Level: (low/med) LOW Date Received: 06/04/98

% Moisture: not dec. Date Analyzed: 06/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

96-18-4	ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה	טטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט
99-87-6p-ISOPROPYLTOLUENE	5 5	U U U

09PZ102

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Lab Name: SWL-TULSA Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34250

Matrix: (soil/water) WATER Lab Sample ID: 34250.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J1515.D

Level: (low/med) LOW Date Received: 06/04/98

% Moisture: not dec. 0 dec. Date Extracted:06/05/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

108-95-2----Phenol 10 U 111-44-4----bis(2-Chloroethyl)ether 10 U U 95-57-8----2-Chlorophenol 10 10 U 541-73-1----1,3-Dichlorobenzene 106-46-7----1,4-Dichlorobenzene 10 U 10 U 100-51-6----Benzyl alcohol 95-50-1----1,2-Dichlorobenzene 10 U 95-48-7----2-Methylphenol 10 U 10 U 108-60-1-----bis(2-Chloroisopropyl)ether_ 10 U 106-44-5----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1-----Hexachloroethane U 98-95-3----Nitrobenzene 10 U 78-59-1-----Isophorone 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9----2,4-Dimethylphenol 10 U 65-85-0-----Benzoic Acid 50 U 111-91-1-----bis(2-Chloroethoxy)methane 10 U 10 120-83-2----2,4-Dichlorophenol 120-82-1----1,2,4-Trichlorobenzene 10 U 91-20-3----Naphthalene 10 U 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 77-47-4-----Hexachlorocyclopentadiene_ 10 U 10 U 88-06-2----2,4,6-Trichlorophenol 95-95-4----2,4,5-Trichlorophenol 50 U 91-58-7----2-Chloronaphthalene 10 U 50 U 88-74-4----2-Nitroaniline 10 U 131-11-3-----Dimethylphthalate 10 U 208-96-8-----Acenaphthylene U 10 606-20-2----2,6-Dinitrotoluene

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

09PZ102

Lab Name: SWL-TULSA Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34250

Matrix: (soil/water) WATER Lab Sample ID: 34250.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J1515.D

Level: (low/med) LOW Date Received: 06/04/98

% Moisture: not dec. 0 dec. Date Extracted:06/05/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

50 99-09-2----3-Nitroaniline U 83-32-9----Acenaphthene 10 U 121-14-2----2,4-Dinitrotoluene 10 U 51-28-5----2,4-Dinitrophenol 50 U 100-02-7----4-Nitrophenol 50 U U 132-64-9-----Dibenzofuran 10 U 84-66-2----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 86-73-7-----Fluorene 10 U 100-01-6----4-Nitroaniline 50 U 534-52-1----4,6-Dinitro-2-methylphenol 50 U 86-30-6----N-Nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenylphenylether U 10 U 118-74-1-----Hexachlorobenzene 10 50 87-86-5----Pentachlorophenol U 10 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 84-74-2----Di-n-butylphthalate U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 85-68-7----Butylbenzylphthalate 10 U 91-94-1----3,37-Dichlorobenzidine 20 U 10 U 56-55-3-----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 117-81-7-----bis(2-Ethylhexyl)phthalate 2 J 117-84-0----Di-n-octylphthalate 10 U 205-99-2----Benzo(b)fluoranthene 10 U 207-08-9----Benzo(k)fluoranthene 10 U 10 U 50-32-8-----Benzo(a)pyrene 193-39-5----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenz(a,h)anthracene_ 10 U 10 U 191-24-2----Benzo(q,h,i)perylene U 10 110-86-1-----Pyridine

EPA SAMPLE NO.

09PZ102

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34250

Matrix: (soil/water) WATER

Lab Sample ID: 34250.05

Sample wt/vol:

1000 (q/mL) ML

Lab File ID:

J1515.D

Level:

(low/med) LOW Date Received: 06/04/98

% Moisture: not dec.

dec. 0

Date Extracted:06/05/98

Extraction: (SepF/Cont/Sonc)

CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.2

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

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INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

09PZ102	
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Lab Name: SOUTHWEST_LAB_OF_OK___ Contract:SAIC Lab Code: SWOK__ Case No.: 34250 SAS No.: Contract:SAIC Lab Code: SWOK

SDG No.: 34250B

Matrix (soil/water): WATER Level (low/med): LOW___

Lab Sample ID: 34250.05

% Solids:

Date Received: 06/04/98

__0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_{\perp}

CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	3.0	B		P
7440-39-3	Barium	44.6	_		P_
7440-43-9	Cadmium_	0.30	ប៊	N	P_
7440-47-3	Chromium_	0.74	В	N	P_
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.10		<u>*</u>	AV F
7782-49-2	Selenium_	2.2	U	w	P-
7440-22-4	Silver	1.4	١٠		- 1
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APPENDIX C

Fort Hood RFI Background Soils Data

FH-BKG Fort Hood Background

Analytical Results

Station:

Silver

S**B101**

Background Soil Boring SB101

Sample ID: FH000-SB10112-10-96/2,0-2.5 Matrix: Soil	(BKSB101)	Sample Depth: Field Sample Type:			Collected: 12/	/10/96
		Fleid Salliple Type.	Detection		Qualifi	
Metais		Resuit	Limit	Units	Lab	Data
Arsenic		3	0.41	MG/KG		
Barium		21.3	0.10	MG/KG	•	J
Cadmium		0.12	0. 05	MG/KG	В	
Chromium		5.1	0.10	MG/KG	E*	J
Lead .		6	0.17	MG/KG	EN*	J
Mercury		0.04	0.04	MG/KG	U	U
S elen ium		0.37	0. 37	MG/KG	U	U
Silver		0.24	0.24	MG/KG	U	U
Sample ID: FH000-SB10212-10-96/4.0-4.7	(BKSB102)	Sample Depth:	4.0-4.7 FT			
Matrix: Soil		Field Sample Type:	Grab		Collected: 12/	/10/96
Metais		Result	Detection	Units	Qualif Lab	fiers Data
Arsenic		2	<u>Limit</u> 0.39	MG/KG		
Barium		8	0.10	MG/KG	•	j
Cadmium		0.05	0. 15	MG/KG	В	•
Chromium		10.3	0.10	MG/KG	E•	J
Lead		5	0.17	MG/KG	EN*	J
Mercury		0.04	0.04	MG/KG	U	ŭ
Selenium		0.36	0.36	MG/KG	Ü	Ü
Silver		0.23	0.23	MG/KG	Ü	Ü
Sample ID: FH000-SB10312-10-96/10.5-11.0	(BKSB103)	Sample Depth:	10.5-11.0 FT		_	
Matrix: Soil	(=::==::00)	Field Sample Type:			Collected: 12	/10/96
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Detection		Qualit	fiers
Metals		Result	Limit	Units	Lab	Data
Arsenic		9.1	0.42	MG/KG		
Barium ·		14.7	0.10	MG/KG	•	J
Cadmium		0.05	0.05	MG/KG	U	U
Chromium		10.1	0.10	MG/KG	E*	j
Lead		9.5	0.18	MG/KG	EN*	J
Mercury		0.04	0.04	MG/KG	U	U
Selenium		0.38	0.38	MG/KG	U	U

0.24

0.24 MG/KG

Ft. Hood RCRA Facility Investigation FH-BKG Fort Hood Background

ample ID: FH000-SB12112-12-96/0.0-1.5 (BKSB121)	Sample Depth:				
Matrix: Soil	Field Sample Type:	Grab		Collected: 12/	
Metals	Resuit	D etection Limit	Units	Qualif Lab	iers Data
Arsenic	4.1	0.38	MG/KG		
Barium	24	0.09	MG/KG		
Cadmium	0.18	0.05	MG/KG	В	
Chromium	6.3	0.09	MG/KG	_	
Lead	10.2	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	Ü	u
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	บ	U
ample ID: FH000-SB12212-12-96/14.0-14.5 (BKSB122)	Sample Depth:	14.0-14.5 FT		-	
Matrix: Soil	Field Sample Type:			Collected: 12	/12/96
	Tiole Campie Type:	Detection		Qualit	
Metals	Result	Limit	Units	Lab	Data
Arsenic	3.2	0.36	MG/KG		
8 ari um	6.1	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	В	
Chromium	4.9	0.09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	J
Mercury	0.04	0. 04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB12312-12-96/19.0-19.5 (BKSB123)	Sample Depth:	19. 0-1 9.5 FT			
Matrix: Soil	Field Sample Type:	Gr ab		Collected: 12	
Metais	Result	Detection Limit	Units	Quali Lab	ifiers Data
Arsenic	3.8	0.36	MG/KG		
Barium	5. 5	0.09	MG/KG		
Cadmium	0.08	0. 03	MG/KG	В	
Chromium	4.3	0.09	MG/KG	_	
Lead	3.8	0.15	MG/KG	EN	J
Mercury	0. 04			U	Ü
Selenium	0.33	0.33	MG/KG	Ü	U
Silver	0.33	0.33	MG/KG	U	u
			MOKO	J	J
Sample ID: FH000-SB20212-12-96/0.0-1.5 (BKSB202) Matrix: Soil	Sample Depth:			Collected: 12	2/12/06
Width. Con	Field Sample Type:		(e		ifiers
Metals	Resuit	Detection Limit	Units		Dat
Arsenic	4.2	0.37	MG/KG		
Barium	18.2	0.09	MG/KG		
Cadmium	0.12	0.04	MG/KG	В	
Chromium	5.9	0.09	MG/KG		
Lead	4.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	ι
Selenium	0.34	0.34	MG/KG	U	U

Ft. Hood RCRA Facility Investigation FH-BKG Fort Hood Background

Sample ID: FH000-SB10412-10-96/0.0-1.5 Matrix: Soil	(BKSB104)	Sample Depth: Field Sample Type:			Collected: 12/	10/96
Week. Con		rield Sample Type.			Qualif	
Metals		Result	Detection Limit	Units	Lab	Data
Arsenic		6.2	0.35	MG/KG		
Barium		28.2	0.08	MG/KG	•	J
Cadmium		0.15	0.04	MG/KG	В	
Chromium		3.1	0.08	MG/KG	E*	J
Lead		5.3	0.15	MG/KG	EN*	J
Mercury		0.04	0.04	MG/KG	U	U
S ele nium		0.32	0.32	MG/KG	U	U
Silver		0.2	0.20	MG/KG	U	U
Sample ID: FH000-SB10512-10-96/4.0-6.0	(BKSB105)	Sample Depth:	4.0-6.0 FT			
Matrix: Soil	(=====,	Field Sample Type:			Collected: 12	/10/96
		. 1010 001111110 177	Detection		Qualif	
Metais		Result	Limit	Units	Lab	Dat
Arsenic	······	4.3	0.36	MG/KG		
Barium		23.4	0. 09	MG/KG	•	J
Cadmium		0.11	0. 04	MG/KG	В	
Chromium		4	0. 09	MG/KG	E*	j
Lead		3.9	0.15	MG/KG	EN*	J
Mercury		0.04	0.04	MG/KG	U	U
Selenium		0.33	0.33	MG/KG	U	ι
Silver		0.21	0.21	MG/KG	U	ι
Sample ID: FH000-SB10612-10-96/9.0-9.4	(BKSB106)	Sample Depth:	9. 0-9 .4 FT			
Matrix: Soil	` ,	Field Sample Type:	Grab		Collected: 12	2/10/96
	·		Detection		Quali	fiers
Metals		Result	Limit	Units	Lab	Dat
Arsenic		. 4.4	0.37	MG/KG		
Barium		43.7	0.09	MG/KG	•	J
Cadmium		0.16	0.04	MG/KG	В	
Chromium		7.6	0. 09	MG/KG	E*	J
Lead		5	0.16	MG/KG	EN*	J
Mercury		0.04	0.04	MG/KG	U	ι
Selenium		0.33	0.33	MG/KG	U	ι
Silver		0.21	0.21	MG/KG	Ų	ι
Sample ID: FH000-SB10712-10-96/14.0-15.0	(BKSB107)	Sample Depth:	14.0-15.0 FT			
Matrix: Soil	,	Field Sample Type:			Collected: 12	2/10/96
Model			Detection		Quali	
Metals		Result	Limit	Units	Lab	Da
Arsenic		53		MG/KG		
Barium		1350		MG/KG	-	•
Cadmium		0.35		MG/KG	В	
Chromium		5.1	0. 09	MG/KG	E*	•
Lead		6.1	0.17		EN*	•
Mercury		0.04	0. 04		U	,
Selenium Silver		0.36	0. 36	MG/KG	U	Į.

Ft. Hood RCRA Facility Investigation FH-BKG Fort Hood Background

ample ID: FH000-SB10812-11-96/0.0-1.0 Matrix: Soil	(BKSB108)	Sample Depth: Field Sample Type:			Collected: 12/	11/96
Metals		Resuit	Detection Limit	Units	Qualifi Lab	ers Data
Arsenic		6	0.40	MG/KG		
Barium		72.4	0.10	MG/KG	•	J
Cadmium		0.2	0.05	MG/KG	8	
Chromium		12.9	0.10	MG/KG	E*	J
Lead		9.8	0.17	MG/KG	EN*	J
Mercury		0.04	0.04	MG/KG	U	U
S elen ium		0.37	0.37	MG/KG	U	u
Silver		0.23	0.23	MG/KG	υ	U
ample ID: FH000-SB10912-11-96/4.0-5.0	(BKSB109)	Sample Depth:	4.0-5.0 FT			
Matrix: Soil	, /	Field Sample Type:			Collected: 12	/11/96
	-	71	Detection		Qualif	iers
Metals		Resuit	Limit	Units	Lab	Dat
Arsenic		3.5	0.38	MG/KG		
Barium		155	0. 09	MG/KG	•	J
Cadmium		0.07	0. 05	MG/KG	В	
Chromium		6.5	0.09	MG/KG	E*	
Lead		3.2	0.16	MG/KG	EN*	
Mercury		0.04	0.04	MG/KG	U	ι
S elen ium		0.34	0.34	MG/KG	U	ŧ
Silver		0.22	0.22	MG/KG	U	ι
Sample ID: FH000-SB11012-11-96/11.0-11.5	(BKSB110)	Sample Depth:	11.0-11.5 FT			
Matrix: Soil		Field Sample Type:	Gr ab		Collected: 12	/11/90
Metals		Requit	Detection	Units	Quali	
		Result	Limit		<u>Lab</u>	Da
Arsenic		4.8	0.40	MG/KG		
Barium		24.1	0.10	MG/KG	-	•
Cadmium		0. 06	0. 05	MG/KG	8	
Chromium		16.6	0.10	MG/KG	E*	•
L ead		7.8	0.17	MG/KG	EN*	•
Mercury		0. 04	0. 04	MG/KG	U	(
S ele nium		0.36	0.36	MG/KG	U	1
Silver		0.23	0.23	MG/KG	U	,
Sample ID: FH000-SB11112-11-96/18.0-18.5	(BKSB111)		18. 0-18.5 FT			
Matrix: Soil		Field Sample Type:	Grab		Collected: 12	
					Quali Lab	tiers Da
Metals		Resuit	Detection	Units	1.01.0	
Metais		Resuit	Limit			
Metals Arsenic		5.2	<u>Limit</u> 0.38	MG/KG		
Metals Arsenic Barium		5.2 7.2	0.38 0.09	MG/KG MG/KG	•	
Metals Arsenic Barium Cadmium		5.2 7.2 0.05	0.38 0.09 0.05	MG/KG MG/KG MG/KG	В	
Metals Arsenic Barium Cadmium Chromium		5.2 7.2 0.05 6.2	0.38 0.09 0.05 0.09	MG/KG MG/KG MG/KG MG/KG	B E*	
Metals Arsenic Barium Cadmium Chromium Lead		5.2 7.2 0.05 6.2 5.3	0.38 0.09 0.05 0.09 0.16	MG/KG MG/KG MG/KG MG/KG MG/KG	B E* EN*	
Metals Arsenic Barium Cadmium Chromium		5.2 7.2 0.05 6.2	0.38 0.09 0.05 0.09 0.16 0.04	MG/KG MG/KG MG/KG MG/KG MG/KG	B E*	

Ft. Hood RCRA Facility Investigation FH-BKG Fort Hood Background

	(BKSB112)		Sample Depth:				
Matrix: Soil			Field Sample Type:	Grab		Collected: 12/	
Metais			Result	D etec tion Limit	Units	Qualifi Lab	iers Data
Arsenic			1.6	0.35	MG/KG		
Barium			6.6	0. 09	MG/KG	•	J
Cadmium			0.04	0.04	MG/KG	U	Ü
Chromium			4	0.09	MG/KG	E*	J
Lead			1.5	0.15	MG/KG	EN*	J
Mercury			0.04	0.04	MG/KG	U	U
Selenium			0.32	0.32	MG/KG	u	U
Silver	•		0.2	0.20	MG/KG	Ü	U
Sample ID: FH000-SB11312-11-96/4.0-5.0	(BKSB113)		Sample Depth:			-	
Matrix: Soil	(2.1.021.0)		Field Sample Type:			Collected: 12	/11/96
			ricia campio ryp-i	Detection		Qualif	
Metals			Result	Limit	Units	Lab	Data
Arsenic			5.7	0.40	MG/KG		
Barium			20.5	0.10	MG/KG	•	J
Cadmium			0.07	0. 05	MG/KG	В	
Chromium			8.9	0.10	MG/KG	E*	J
Lead			6	0.17	MG/KG	EN*	J
Mercury			0.04	0.04	MG/KG	U	U
S elen ium			0.36	0.36	MG/KG	U	U
Silver			0.23	0.23	MG/KG	U	U
Sample ID: FH000-SB11412-11-96/11.0-12.0	(BKSB114)		Sample Depth:	11.0-12.0 FT			
Matrix: Soil	,		Field Sample Type:	Grab		Collected: 12	/11/96
Manage				Detection		Quali	
Metais			Result	Limit	Units	Lab	Data
Arsenic			5.2	0.42	MG/KG	•	
Barium			2 5.2	0.10	MG/KG	•	J
Cadmium			0. 05	0.05	MG/KG	U	Ü
Chromium			20.3	0.10	MG/KG	E*	J
Lead			7. 7	0.18	MG/KG	EN*	J
Mercury			0.04	0.04	MG/KG	U	U
S ele nium			0.38	0.38	MG/KG	U	ι
Silver			0.24	0.24	MG/KG	U	ι
Sample ID: FH000-SB11512-11-96/15.0-15.5	(BKSB115)		Sample Depth:	15. 0-15 .5 FT			
Matrix: Soil			Field Sample Type:	Grab		Collected: 12	
Metals			Beaut	Detection	Units	Quali	
			Result	Limit		Lab	Dat
Arsenic		_	5.3	0.36			
Barium		=	10.6	0.09			J
Cadmium			0. 06	0.04		B 5•	
Chromium			7.3	0. 09		E.	
Lead			5.1	0.15		EN*	
Mercury			0.04	0. 04		U	Ų
			0.32	0.32	MG/KG	U	į
Selenium Silver			0.2	0.20		U	ι

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB11612-11-96/22.0-22.5 (BKSB116)

Sample Depth: 22.0-22.5 FT

(8108110)	Oditible pebai:				
Matrix: Soil	Field Sample Type:	Grab		Collected: 12	/11/96
Metais	Result	Detection Limit	Units	Qualif Lab	fiers Data
Arsenic	11.6	0.37	MG/KG		
Barium	4.9	0.09	MG/KG	•	J
Cadmium	0.2	0.04	MG/KG	В	
Chromium	2.7	0. 09	MG/KG	E*	J
Lead	5.6	0.16	MG/KG	EN*	J
Mercury	0.04	0. 04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation FH-BKG Fort Hood Background

Sample ID: FH000-SB11712-12-96/0.0-1.0 (BKSE Matrix: Soil	•	ample Depth: Sample Type:			Collected: 12/	12/96
	rieid (sample Type.			Qualif	
Metals		Result	Detection Limit	Units	Lab	Data
Arsenic		4.4	0.37	MG/KG		
Barium		2 7.9	0.09	MG/KG	•	J
Cadmium		0.18	0.04	MG/KG	В	
Chromium		5.7	0.09	MG/KG	E*	J
Lead		8. 3	0.16	MG/KG	EN*	J
Mercury		0. 04	0.04	MG/KG	U	U
Selenium		0.33	0.33	MG/KG	U	U
Silver		0.21	0.21	MG/KG	υ	U
Sample ID: FH000-SB11812-12-96/9.0-9.5 (BKS)	3118) S	ampie Depth:	9. 0-9.5 FT			
Matrix: Soil	Field	Sample Type:	Grab		Collected: 12	/12/96
		<u> </u>	Detection		Qualif	iers
Metals		Result	Limit	Units	Lab	Data
Arsenic		2.6	0.37	MG/KG		
Barium		4.4	0. 09	MG/KG	•	J
Cadmium		0.19	0.04	MG/KG	В	
Chromium		2.2	0. 09	MG/KG	E*	J
Lead		3.7	0.16	MG/KG	EN*	J
Mercury		0. 04	0.04	MG/KG	υ	υ
S elen ium		0.34	0.34	MG/KG	U	U
Silver		0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB11912-12-96/14.0-14.5 (BKSI	B119) S	ample Depth:	14. 0-1 4.5 FT			
Matrix: Soil	Field	Sample Type:	Grab		Collected: 12	/12/96
Materia			Detection	11-11-	Quali	
Metals		Result	Limit	Units	Lab	Dat
Arsenic		0.66	0.37	MG/KG	8	
Barium		3	0.09	MG/KG		
Cadmium		0. 06	0. 04	MG/KG	8	
Chromium		2.1	0.09	MG/KG		
Lead		1.3	0.16	MG/KG	EN	J
Mercury		0.04	0. 04	MG/KG	U	u
S ele nium		0.33	0.33	MG/KG	U	u
Silver		0.21	0.21	MG/KG	U	u
Sample ID: FH000-SB12012-12-96/19.0-20.0 (BKS	B120) S	Sample Depth:	19. 0-2 0.0 FT			
Matrix: Soil		Sample Type			Collected: 12	2/12/96
			Detection		Quali	fiers
		Paguit	Limit	Units	Lab	Dat
Metals		Resuit	CHILL			
Metals Arsenic		0.44		MG/KG	В	
			0.35	MG/KG MG/KG	В	
Arsenic		0.44	0.35 0. 0 8	MG/KG	B	ι
Arsenic Barium		0.44 2 0. 0 4	0. 35 0. 08 0. 04	MG/KG		ι
Arsenic Barium Cadmium		0.44 2 0.04 0.93	0.35 0.08 0.04 0.08	MG/KG MG/KG MG/KG	U	l.
Arsenic Barium Cadmium Chromium		0.44 2 0.04 0.93 0.72	0.35 0.08 0.04 0.08 0.15	MG/KG MG/KG MG/KG MG/KG	U B	
Arsenic Barium Cadmium Chromium Lead		0.44 2 0.04 0.93	0.35 0.08 0.04 0.08 0.15	MG/KG MG/KG MG/KG MG/KG MG/KG	U B E N	J

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20112-12-96/0.0-1.0

(BKSB201)

Sample Depth: 0.0-1.0 FT

0.21

Matrix: Soil Collected: 12/12/96 Field Sample Type: Field Duplicate Qualifiers Detection Units Metais Result Lab Data Limit Arsenic 0.36 MG/KG 4.4 MG/KG Barium 17.9 0.09 Cadmium 0.04 MG/KG В 0.14 Chromium 2.6 0.09 MG/KG 0.15 MG/KG EN Lead 5.9 Mercury 0.04 0.04 MG/KG U 0.33 MG/KG U U Selenium 0.33 Silver 0.21 MG/KG

Ft. Hood RCRA Facility Investigation FH-BKG Fort Hood Background

(BKSB124)	•			Collectori: 12	/12/QE
	Field Sample Type.				
	Result	D etection Limit	Units	Lab	Data
	6	0.37	MG/KG		
	` 19.3	0.09	MG/KG		
	0.11	0.04	MG/KG	В	•
	7.2	0. 09	MG/KG		
	4.5	0.16	MG/KG	EN	J
	0.04	0.04	MG/KG	U	U
	0.34	0.34	MG/KG	U	U
	0.21	0.21	MG/KG	U	U
(BKSB125)	Sample Depth:	4.0-4.5 FT			
,,	Field Sample Type:	Grab		Collected: 12	2/12/96
		Detection		Quali	fiers
	Result	Limit	Units	Lab	Data
	3.2	0.35	MG/KG		
	18.1	0.09	MG/KG		
	0.11	0.04	MG/KG	8	
	5.1	0.09	MG/KG		
	1.7	0.15	MG/KG	EN	J
	0.04	0. 04	MG/KG	U	U
	0.36	0.32	MG/KG	В	
	0.2	0.20	MG/KG	U	U
(BKSB126)	Sample Depth:	5. 5-6.0 FT			
(,	,			Collected: 13	2/12/96
		Detection		Qual	lifiers
	Result	Limit	Units	<u>Lab</u>	Data
	2.5	0.36	MG/KG		
	5.4	0. 09	MG/KG		
	0.06	0. 04	MG/KG	. B	
	5.5	0. 09	MG/KG		
	1.5	0.15	MG/KG	EN	J
	0.04	0.04	MG/KG	U	U
	0.44	0.33	MG/KG	В	
	0.21	0.21	MG/KG	U	L
(BKSB203)	Sample Depth:	0. 0-1.0 FT			
	Field Sample Type:	Field Duplica	te		
	Result	Detection	Units	Lab	
	59		MG/KG		
-1	= 39				
				В	
	0 17	(7.13.1			
	0.17 9.3				
	9.3	0.09	MG/KG	EN	
	9.3 6.6	0. 09 0. 16	MG/KG MG/KG	EN U	
	9.3	0.09 0.16 0.04	MG/KG MG/KG MG/KG	EN U U	•
•	(BKSB125)	Sample Depth: Field Sample Type: Result	Sample Depth: Field Sample Type: Grab Petection Limit	Field Sample Type: Grab	Field Sample Type: Grab Collected: 12

FH-BKG Fort Hood Background

Sample ID: FH000-SB135/01-14-97/0.0-1.0 (BKSB135)	Sample Depth:				
Matrix: Soil	Field Sample Type:	Grab		Collected: 01/1	
Metals	Resuit	Detection Limit	Units	Qualifi Lab	ers Data
Arsenic	2.7	0.36	MG/KG		
Barium	15.4	0. 09	MG/KG	•	j
Cadmium	0.17	0. 04	MG/KG	B*	J
Chromium	6.1	0. 09	MG/KG		
Lead	2.5	0.15	MG/KG	•	J
Mercury	0. 04	0.04	MG/KG	U	U
Selenium	1.5	1.5	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB136/01-14-97/5.0-5.5 (BKSB136)	Sample Depth:	5. 0-5.5 FT			
Matrix: Soil	Field Sample Type:			Collected: 01/	14/97
	7,	Detection		Qualifi	ers
Metals	Result	Limit	Units	Lab	Data
Arsenic	4.3	0.38	MG/KG		
Barium	14.8	0. 09	MG/KG	•	J
Cadmium	0.2	0. 05	MG/KG	8*	J
Chromium	8.3	0. 09	MG/KG		
Lead	3	0.16	MG/KG	•	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	UWN	R
Silver	0.22	0.22	MG/KG	U	U
Sample ID: FH000-SB137/01-14-97/9.0-9.5 (BKSB137)	Sample Depth:	9 0-9.5 FT			
Matrix: Soil	Field Sample Type:			Collected: 01/	/14/97
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Detection		Qualif	iers
Metals	Result	Limit	Units	Lab	Dat
Arsenic	8.2	0. 36	MG/KG		
Barium	7.8	0. 09	MG/KG	•	J
Cadmium	0.18	0. 04	MG/KG	B*	J
Chromium	8.1	0. 09	MG/KG		
Lead	2.3	0.15	MG/KG	•	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	F
Silver	0.21	0.21	MG/KG	U	L
Sample ID: FH000-SB138/01-14-97/14.0-14.5 (BKSB138)	Sample Depth:	14.0-14.5 FT			
Matrix: Soil	Field Sample Type	Grab		Collected: 01	
		Detection Limit	Units	Quali Lab	fiers Daf
Metals	Resuit				
			MG/KG		
Arsenic	9.2	0.38		•	
Arsenic Barium	9.2 12.2	0.38 0.09	MG/KG	• B•	
Arsenic Barium Cadmium	9.2 12.2 0.21	0.38 0.09 0.05	MG/KG MG/KG	• B•	
Arsenic Barium Cadmium Chromium	9.2 12.2 0.21 11.1	0.38 0.09 0.05 0.09	MG/KG MG/KG MG/KG	• B*	•
Arsenic Barium Cadmium Chromium Lead	9.2 12.2 0.21 11.1 4.1	0.38 0.09 0.05 0.09 0.16	MG/KG MG/KG MG/KG MG/KG	•	•
Arsenic Barium Cadmium Chromium Lead Mercury	9.2 12.2 0.21 11.1 4.1 0.04	0.38 0.09 0.05 0.09 0.16	MG/KG MG/KG MG/KG MG/KG MG/KG	• U	,
Arsenic Barium Cadmium Chromium Lead	9.2 12.2 0.21 11.1 4.1	0.38 0.09 0.05 0.09 0.16 0.04	MG/KG MG/KG MG/KG MG/KG MG/KG	•	,

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB139/01-14-97/16.5-17.0 (BKSB139)

Sample Depth: 16.5-17.0 FT

Matrix: Soil	Field Sample Type:	Grab		Collected: 01/	14/97
Metals	Result	Detection Limit	Units	Qualif Lab	iers Data
Arsenic	7.6	0.37	MG/KG		
Barium	7.3	0.09	MG/KG	•	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	8.4	0.09	MG/KG		
Lead	3.6	0.16	MG/KG	•	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

FH-BKG Fort Hood Background

ample ID: FH000-SB140/01-15-97/0.0-1.0 Matrix: Soil	(BKSB140)	Sample Depth: Field Sample Type:			Collected: 01/	15/97
		r ide dampie cype.	Detection		Qualifi	ers
Metais		Result	Limit	Units	Lab	Data
Arsenic		4.8	0.41	MG/KG		
Barium		108	0.10	MG/KG	•	J
Cadmium		0.79	0. 05	MG/KG	•	j
Chromium		16.1	0.10	MG/KG		
Lead		33.2	0.17	MG/KG	•	J
Mercury		0.04	0.04	MG/KG	U	U
Selenium		0.35	0.35	MG/KG	UWN	R
Silver		0.24	0.24	MG/KG	U	U
iample ID: FH000-SB141/01-15-97/4.0-5.0	(BKSB141)	Sample Depth:	4.0-5.0 FT			
Matrix: Soil	,	Field Sample Type:			Collected: 01/	15/97
		· <u>· · · · · · · · · · · · · · · · · · </u>	Detection		Qualif	iers
Metals		Result	Limit	Units	Lab	Dat
Arsenic		5.6	0.43	MG/KG		
Barium		127	0.10	MG/KG	•	J
Cadmium		0.45	0.05	MG/KG	B*	J
Chromium		23.6	0.10	MG/KG		
Lead		12.1	0.18	MG/KG	•	J
Mercury		0.04	0. 04	MG/KG	U	U
S elen ium		1.8	1.8	MG/KG	UN	R
Silver		0.25	0.25	MG/KG	U	U
Sample ID: FH000-SB142/01-15-97/9.0-10.0	(BKSB142)	Sample Depth:				
Matrix: Soil	(,	Field Sample Type:			Collected: 01	/15/97
			Detection		Qualit	fiers
Metals		Result	Limit	Units	Lab	Dat
Arsenic		3.8	0.44	MG/KG		
Barium		63	0.11	MG/KG	•	J
Cadmium		0.29	0. 05	MG/KG	B*	J
Chromium		8.4	0.11	MG/KG		
Lead		5	0.19	MG/KG	•	J
Mercury		0.04	0.04	MG/KG	U	ſ
S ele nium		1.9	1.9	MG/KG	UWN	F
Silver		0.25	0.25	MG/KG	U	ŧ
Sample ID: FH000-SB143/01-15-97/14.5-15.0	(BKSB143)	Sample Depth:	14.5-15.0 FT			
Matrix: Soil		Field Sample Type	Grab		Collected: 01	/15/97
11-1-1			Detection	14-14-	Quali	
Metals		Result	Limit	Units	Lab	Da
Arsenic		3.8		MG/KG		
Barium		39. 3	0.10	MG/KG	•	•
Cadmium		0.27	0. 05	MG/KG	B*	•
Chromium		12.2	0.10	MG/KG		
Lead		6.6	0.17	MG/KG	•	,
Mercury		0. 0 4		MG/KG	U	
S ele nium		0.35	0.35	MG/KG	UWN	
Selement		0.00				

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB144/01-15-97/19.0-19.3 (BKSB144)

Sample Depth: 19.0-19.3 FT

Matrix: Soil	Field Sample Type:	Gr ab		Collected: 01/	15/97
•••		Detection		Qualif	iers
Metals	Result	Limit	Units	Lab	Date
Arsenic	3.7	0.37	MG/KG		
Barium	36.1	0.09	MG/KG	•	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	6.5	0.09	MG/KG		
Lead	4	0.16	MG/KG	•	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	11	ш

Ft. Hood RCRA Facility Investigation FH-BKG Fort Hood Background

· · · · · · · · · · · · · · · · · · ·	tical Results				
ation: SB110 Background Soil Boring SB110 sample ID: FH000-SB12712-13-96/0.0-1.0 (BKSB127) Matrix: Soil	Sample Depth: Field Sample Type:			Collected: 12	/13/96
Metals	Result	Detection Limit	Units	Qualif Lab	iers Dat
Arsenic	1.9	0.36	MG/KG		
Barium	18.8	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	
Chromium	3.7	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	
Mercury	0.04	0.04	MG/KG	U	
Selenium	0.33	0.33	MG/KG	U	
Silver	0.21	0.21	MG/KG	U	
Sample ID: FH000-SB12812-13-96/4.0-6.0 (BKSB128)	Sample Depth:	4.0-6.0 FT			
Matrix: Soil	Field Sample Type:	Grab		Collected: 12	2/13/9
		Detection		Quali	fiers
Metais	Result	Limit	Units	Lab	Da
Arsenic	3.6	0.38	MG/KG		
Barium	36.3	0.09	MG/KG		
Cadmium	0. 05	0. 05	MG/KG	U	
Chromium	8.5	0.09	MG/KG		
Lead	7.5	0.16	MG/KG	EN	
Mercury	0.04	0.04	MG/KG		
S elen ium	0.35	0.35	MG/KG	U	
Silver	0.22	0.22	MG/KG	U	
Sample ID: FH000-SB12912-13-96/10.0-11.0 (BKSB129)	Sample Depth:	10. 0-11 .0 FT			
Matrix: Soil	Field Sample Type:			Collected: 12	2/13/9
	7,	Detection		Quai	ifiers
Metals	Result	Limit	Units	Lab	D
Arsenic	2.6	0.36	MG/KG		
Barium	26.3	0.09	MG/KG		
Cadmium	0.04	0. 04	MG/KG	U	
Chromium	4.6	0. 09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	
Mercury	0.04	0. 04	MG/KG	U	
Selenium	0.33	0.33	MG/KG	U	
Silver	0.21	0.21	MG/KG	U	
Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130)	Sample Depth:	15. 0-1 6.0 FT	,		
Matrix: Soil	Field Sample Type:	Grab		Collected: 1:	2/1 3 /
		Detection			lifiers
Metals	Resuit	<u>Limit</u>	Units	Lab	0
Arsenic	1	0.35	MG/KG	В	
Barium	8.1	0.08	MG/KG		
Cadmium	0.07	0.04	MG/KG	В	
Chromium	1.8	0.08	MG/KG		
Lead	3.1	0.15	MG/KG	EN	
Mercury	0.04			U	
S elenium	0.32	0.32	MG/KG	U	

Ft. Hood RCRA Facility Investigation FH-BKG Fort Hood Background

Sample ID: FH000-SB13112-13-96/20.0-21.0 Matrix: Soil	(B KSB131)	•	20.0-21.0 FT		.	
Matrix, Soil		Field Sample Type:			Collected: 12/	
Metals		Resuit	Detection Limit	Units	Qualifi Lab	iers Data
Arsenic		5.3	0.38	MG/KG		
Barium		65.9	0.09	MG/KG		
Cadmium		0.15	0.05	MG/KG	В	
Chromium		7.7	0.09	MG/KG	-	
Lead		10.1	0.16	MG/KG	EN	J
Mercury		0.04	0.04	MG/KG	U	u
Selenium		0.34	0.34	MG/KG	Ü	Ū
Silver		0.22	0.22	MG/KG	Ü	Ū
Sample ID: FH000-SB13212-13-96/25.0-26.0	(BKSB132)	Sample Depth:	25.0-26.0 FT		-	_
Matrix: Soil	(3.132.32)	Field Sample Type:			Collected: 12/	/13/96
		Tiold Dample Type:	Detection		Qualif	
Metais		Result	Limit	Units	Lab	Data
Arsenic		4.2	0.37	MG/KG		
Barium		41.7	0.09	MG/KG		
Cadmium		0.04	0.04	MG/KG	U	U
Chromium		5.9	0.09	MG/KG		
Lead		7.8	0.16	MG/KG	EN	J
Mercury		0.04	0.04	MG/KG	U	U
S elen ium		0.34	0.34	MG/KG	U	u
Silver		0.21	0.21	MG/KG	ū	ับ
Sample ID: FH000-SB13312-13-96/30.0-31.0	(BKSB133)	Sample Depth:	30.0-31.0 FT			_
Matrix: Soil	(=::==;	Field Sample Type:			Collected: 12	/13/96
Metals			Detection		Qualif	
		Result	Limit	Units	<u></u>	Data ———
Arsenic		3.2	0. 39	MG/KG		
Barium		6 8.6	0. 09	MG/KG		
Cadmium	•	0.11	0. 05	MG/KG	В	
Chromium		4.9	0. 09	MG/KG		
Lead		6.3	0.17	MG/KG	EN	J
Mercury		0.04	0.04	MG/KG	U	Ų
Selenium		0.35	0.35	MG/KG	U	U
Silver		0.22	0.22	MG/KG	U	U
Sample ID: FH000-SB13412-13-96/34.0-34.5	(BKSB134)	Sample Depth:	34. 0-34.5 FT			
Matrix: Soil		Field Sample Type:	Gr ab		Collected: 12	
Metals		Result	Detection	Units	Quali Lab	fiers Dat
Arsenic		2.9	<u>Limit</u> 0.36	MG/KG		
Barium		20.1	0.09	MG/KG		
Cadmium		0.08	0.04	MG/KG	В	
Chromium		1.2	0.09	MG/KG		
Lead		2.3	0.09	MG/KG	EN	J
		2.3 0. 04	0.15	MG/KG	U	į
Mercury			U. U4		- U	,
Mercury Selenium					11	
Mercury Selenium Silver		0.33 0.21	0.33 0.21	MG/KG MG/KG	U U	u

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20412-13-96/4.0-6.0

(BKSB204)

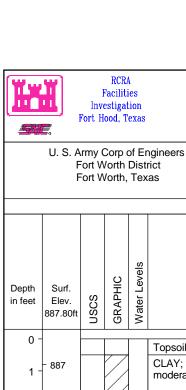
Sample Depth: 4.0-6.0 FT

Collected:	12/13/96
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Matrix: Soil	Field Sample Type: Field Duplicate			Collected: 12	/13/96
Metais	Result	Detection Limit	Units	Quali Lab	fiers Data
Arsenic	3.2	0.38	MG/KG		
8arium	31.9	0.09	MG/KG		
Cadmium	0.05	0. 05	MG/KG	U	U
Chromium	6.5	0. 09	MG/KG		
Lead	7.1	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
S elen ium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

APPENDIX D

Fort Hood RFI Background Soil Boring Logs



10-20-1999 t:\gov\coe\fthood\boringlogs\fthbkg\SB101.BOR

RCRA Facilities Investigation Fort Hood, Texas

Fort Worth District

Fort Worth, Texas

Boring FHBKG-SB101

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FHBKG : Background Start Date : 12/10/96 End Date : 12/10/96 Northing Coord. : 3446458.08 m Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist

Depth to Bedrock : 15.0 feet Depth Drilled Into Rock: 3.5 feet Borehole Diameter : 8 inches

						Easting Coord. Total Depth of Boring	: 61375.50 m UTM 1 : 18.5 feet	14 North	Sampling Equipment	: 4.25" Augers : CME Sampler 5' long
Depth in feet	Surf. Elev. 887.80ft	nscs	GRAPHIC	Water Levels		DESCRIPTION			REMAI	RKS
0 -					Topsoil. 0.0-0.5' b	gs.; weathered tan lim	estone.	No sam	ple recovery.	
1 -	- 887				CLAY; weathered moderately plastic	limestone fragments; c; 10YR5/4 yellowish b	damp; soft; rown.			
2 -	- 886	CL			Same as above; d	dry.		Sample	BKSB101 collected 2.0-2	5' bgs.
3 -	- 885				Same as above; d	dry; more weathered lin	nestone.	Descript	tion from soil cuttings.	
4 -	- 884 - 883				CLAY, fat; fewer fr mottled 10YR6/6 b	ragments; damp; firm; brownish yellow and 2.	highly plastic; 5Y7/1 light gray.	Sample	BKSB102 collected 4.0-4	.7' bgs.
5 - 6 -	- 882				Same CLAY as at	bove; more silty; interb	edded with	Descript	tion from soil cuttings.	
7 -	- 881	СН			weathered limesto	one; dry.			·	
8 -	- 880	011								
9 -	- 879									
10 -	- 878				Same as above; d	dry.				
11 -	- 877				Silty CLAY; dry; fir yellow.	rm; non-plastic; 10YR6	6/6 brownish	Sample	BKSB103 collected 10.5-	11.0' bgs.
12 -	- 876				Same as above; ir limestone; dry.	nterbedded with tan we	eathered			
13 -	- 875 - 874	CL								
14 -	- 874 - 873									
15 - 16 -	- 872				LIMESTONE, wea	athered; dry; blue-gray		Descript	tion from soil cuttings.	
17 -	- 871	LS								
18 -	- 870							Soil cold	ors from Munsell Soil Colo	or Chart, 1992 Revised Edition
19 -	- 869				Bottom of Boring	@ 18.5' bgs.				
20 -	- 868									



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U. S. Army Corp of Engineers Fort Worth District Fort Worth, Texas

Boring FHBKG-SB102

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FHBKG : Background Start Date : 12/12/96 End Date : 12/12/96 Northing Coord. : 3446503.40 m

Easting Coord. : 613980.64 m UTM 14 North

Total Depth of Boring : 19.5 feet

Drilling Company : Terra-Mar

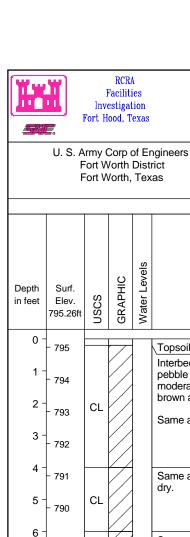
Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : 16.0 feet

Depth Drilled Into Rock: 3.5 feet **Borehole Diameter** : 8 inches Sampling Equipment : 4.25" Augers

· CMF Sampler 5' long

						Total Depth of Boring : 19.5 feet			: CME Sampler 5' long
Depth in feet	Surf. Elev. 912.28ft	nscs	GRAPHIC	Water Levels		DESCRIPTION			REMARKS
0 -	- 912				Topsoil. 0.0-0.4' b	ns		Sample	BKSB121, duplicate BKSB202, and split sample
1 -	911				Silty CLAY; weath	ered limestone fragments; dry; firm; ad 10YR5/3 brown and 10YR8/2 ver	; y		02 collected 0.0-0.5' bgs.
2 -	- 910	CL			Same as above; d	nv.			
3 -	- 000				Carrie as above, a	.y.		Descript	tion from soil cuttings.
4 -	- 909 - - 908				LIMESTONE, wea	athered, tan; and Silty Clay interbed	s;		
5 -	- 907	CL							
6 -	- 906				Zones of limestone	e and highly indurated silty clay			
7 -	- 905				hard; 2.5Y8/2 pale	one?); shell fragments; roots; dry; ve yellow.	ery		
8 -	- 904								
9 -	- 903				Same as above; d	ry.			
10 -	- 902								
11 -	- 901	CL			Same as above; d	ry.			
12 -	- 900								
13 -	- 899							Descript	tion from soil cuttings.
14 -	- 898							Sample	BKSB122 collected 14.0-14.5' bgs.
15 -	- - 897				Same as above; d	ry.			
16 -	- 896				LIMESTONE, wea	athered; dry; blue-gray.			
17 ⁻ 18 ⁻	- 895	LS			Same as above; d	n/			
	- 894								
19 -	- 893				Same as above; d				BKSB123 collected 19.0-19.5' bgs.
20 -]				Bottom of Boring	@ 19.5' bgs.		Soil cold	ors from Munsell Soil Color Chart, 1992 Revised Editi



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Boring FHBKG-SB103

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FHBKG : Background Start Date : 12/10/96 End Date : 12/10/96 Northing Coord. : 3447405.80 m

Easting Coord. : 606690.49 m UTM 14 North

Total Depth of Boring : 17.0 feet

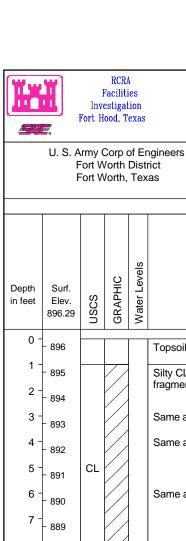
Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : 15.0 feet Depth Drilled Into Rock: 2.0 feet **Borehole Diameter** : 8 inches Sampling Equipment : 4.25" Augers

: CME Sampler 5' long

						Total Depth of Boring : 17.0 feet		: CME Sampler 5' long
Depth in feet	Surf. Elev. 795.26ft	nscs	GRAPHIC	Water Levels		DESCRIPTION		REMARKS
0 -	- 795				Topsoil. 0.0-0.2' be	gs.; weathered tan limestone.	Sample	e BKSB104 collected 0.0-0.5' bgs.
1 -	- 794				pebble sized angumoderately plastic	and pebbly CLAY; 40% coarse sand to lar to subrounded fragments; dry; thin layers of 10YR8/4 very pale		
2 -	- 793	CL				2 very dark grayish brown.		
3 -	- 792				Same as above; n	o pennies, ary.	Descri	ption from soil cuttings.
4 -	- 791					reathered, tan limestone fragments;	Sample	e BKSB105 collected 4.0-4.5' bgs.
5 -	- 790	CL			dry.			
6 -	- 789				Same as above; ir	nterbeds of limestone; dry.		
7 -	- 788				Same as above; d	ry.		
8 -	- 787							
9 -	- 786				Same as above; d	ry.	Sample	e BKSB106 collected 9.0-9.5' bgs.
10 -	- 785	CL						
11 -	- 784				Same as above; edry; soft; non-plas	xcept more medium to coarse sand; tic.		
12 -	- 783							
13 -	- 782				Same as above; d	ry.	Descri	ption from soil cuttings.
14 -	- 781	CL			moderately plastic	ered limestone fragments; damp; firm; ; mottled 10YR8/2 very pale brown and	Sample	e BKSB107 collected 14.0-15.0' bgs.
15 -	- 780				10YR6/4 light yello LIMESTONE, wea	athered; dry; blue-gray.	1	
16 -	- 779	LS						
17 -	- 778		1 . 1		Bottom of Boring	@ 17.0' bgs.		
18 -	- 777							
19 -	- 776							
20 -							Soil co	olors from Munsell Soil Color Chart, 1992 Revised Edi



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Fort Hood, Texas

Boring FHBKG-SB104

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FHBKG : Background Start Date : 12/11/96 End Date : 12/11/96 Northing Coord. : 3447780.16 m

Easting Coord. : 613523.75 m UTM 14 North

Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : 24.0 feet Depth Drilled Into Rock: NA

Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

: CME Sampler 5' long

						Total Depth of Boring : 24.0 feet		: CME Sampler 5' long
Depth in feet	Surf. Elev. 896.29	nscs	GRAPHIC	Water Levels		DESCRIPTION		REMARKS
0 -	- 896				Topsoil. 0.0-1.0' b	gs.; weathered tan limestone.	Sample	e BKSB108 collected 0.0-1.0' bgs.
1 - 2 -	- 895 - 894				Silty CLAY; trace fragments; damp;	organics; weathered limestone soft; low plasticity; 2.5Y7/6 yellow.		
3 -	- 893				Same as above.		Descrip	ption from soil cuttings.
4 - 5 -	- 892	CL			Same as above; r	no organics; dry; 10YR7/8 yellow mottle.		e BKSB109 collected 4.0-5.0' bgs.
6 -	- 891 - 890				Same as above; s	slightly more silty; dry; hard; brittle.		
7 -	- 889						Descrip	ption from soil cuttings.
8 -	- 888							
9 -	- 887				LIMESTONE, wea		Descrip	ption from soil cuttings. Hard drilling.
10 - 11 -	- 886	LS			weathered limesto	one as above.		
12 -	- 885	CL			Silty CLAY as above; d		Sample	e BKSB110 collected 11.0-11.5' bgs.
13 -	- 884						Geotec	chnical sample collected 12.0-13.0' bgs.
14 -	- 883				Silty CLAY and w	eathered LIMESTONE interbeds.		
15 -	- 882 - 881	۵.					Descrip	ption from soil cuttings.
16 -	- 880	CL						
17 -	- 879							
18 -	- 878	CL			Silty CLAY as abo		Sample	e BKSB111 collected 18.0-18.5' bgs.
19 -	- 877				Silty CLAY and w	eathered LIMESTONE interbeds.		
20 - 21 -	- 876						Descri	ption from soil cuttings.
22 -	- 875	CL					200011	pass con country.
23 -	- 874 - 973				Same as above; d			
24 -	- 873 - 872		 		Blue-gray weather	red limestone fragments; dry.	Soil co	olors from Munsell Soil Color Chart, 1992 Revised Editi
25 -	- 0,2	LS	,,,,,,		Bottom of Boiling	ш 27.0 bys.		



RCRA Facilities Investigation Fort Hood, Texas

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Boring FHBKG-SB105

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FHBKG : Background Start Date : 12/11/96 End Date : 12/11/96 Northing Coord. : Not Easting Coord. : Surveyed

Drilling Company : Terra-Mar

Geologist

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

Depth to Bedrock : 24.0 feet Depth Drilled Into Rock: NA Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

: Jeff DeVaughn

Depth Suff. In feet Suff. No. 29 20 20 20 20 20 20 20 20 20 20 20 20 20						Total Depth of Boring : 24.0 feet		: CME Sampler 5' long
Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 2.5Y6/4 light yellowish brown. Same as above; dry. CLAY, fat; dry; firm; highly plastic; mottled 2.5Y6/4 light yellowish brown. Same as above; dry. CLAY, fat; dry; firm; highly plastic; mottled 2.5Y6/4 light yellowish brown and 10YR6/6 brownish yellow. Silty CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown. Sample BKSB113 collected 4.0-5.0' bgs. Sample BKSB113 collected 4.0-5.0' bgs. Sample BKSB113 collected 4.0-5.0' bgs. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0' bgs. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0' bgs. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Sample BKSB115 collected 15.0-15.5' bgs. Sample BKSB115 collected 15.0-15.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Sample BKSB116 collected 22.0-22.5' bgs. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit	-	Elev.	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
Sample BKSB112 collected 1.0-1.5' bgs. Sample BKSB112 collected 1.0-1.5' bgs. Sample BKSB112 collected 1.0-1.5' bgs. CL CL Same as above; dry. CLAY, fat; dry; firm; highly plastic; mottled 2.5Y6/4 light yellowish brown and 10YR8/6 brownish yellow. Sity CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown. CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Description from soil cuttings. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit	0 -	- 0	CD.			GRAVEL (graded area).		
Same as above; dry. CLAY, fat; dry, firm; highly plastic; mottled 2.5Y6/4 light yellowish brown and 10 Y66/6 brownish yellow. Sample BKSB113 collected 4.0-5.0' bgs. Sample BKSB113 collected 4.0-5.0' bgs. Sample BKSB113 collected 4.0-5.0' bgs. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0' bgs. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0' bgs. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Sample BKSB116 collected 15.0-15.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Sample BKSB116 collected 22.0-22.5' bgs.	1 -	1	GP			Silty CLAY; weathered limestone fragments; dry; firm;	Sample B	SKSB112 collected 1.0-1.5' bgs.
CLAY, fat; dry; firm; highly plastic; mottled 2.5Y6/4 light yellowish brown and 10YR6/6 brownish yellow. Sity CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown. Sample BKSB113 collected 4.0-5.0° bgs. Description from soil cuttings. Description from soil cuttings. Same as above; dry. Same as above; dry. Description from soil cuttings. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0° bgs. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5° bgs. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5° bgs. Description from soil cuttings. Sample BKSB116 collected 22.0-22.5° bgs. Sample BKSB116 collected 22.0-22.5° bgs. Sample BKSB116 collected 22.0-22.5° bgs.			CL				Description	on from soil cuttings
CLAY, fat; dry; firm; highly plastic; mottled 2.5Y6/4 light yellowsh brown and 107 R6/6 brownish yellow. Silty CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown. Sample BKSB113 collected 4.0-5.0° bgs. Sample BKSB113 collected 4.0-5.0° bgs. Description from soil cuttings. Description from soil cuttings. Same as above; dry; moderately plastic. Same as above; dry; moderately plastic. Same as above; dry. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0° bgs. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5° bgs. Sample BKSB115 collected 15.0-15.5° bgs. Sample BKSB116 collected 22.0-22.5° bgs.						Came as above, any.	Boompaid	on rom con cannigo.
Sity CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown. Same as above; dry. Same as above; dry; moderately plastic. Same as above; dry. Same as above; dry. Same as above; dry. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0' bgs. Same as above; dry. Description from soil cuttings. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Sample BKSB115 collected 15.0-15.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs.			СН			yellowish brown and 10YR6/6 brownish yellow.	Sample B	SKSB113 collected 4.0-5.0' bgs.
B - 8 9 - 9 10 - 10 CL Same as above; dry. Same as above; dry, moderately plastic. Sample BKSB114 collected 11.0-12.0' bgs. Same as above; dry, moderately plastic. Sample BKSB114 collected 11.0-12.0' bgs. Description from soil cuttings. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Same as above; more silt; dry; hard; brittle; non-plastic. Same as above with weathered limestone interbeds. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Description from soil cuttings. Sample BKSB116 collected 22.0-22.5' bgs.						Silty CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown.		
99 1010 CL Same as above; dry. 1111 1212 1313 Same as above; dry. Same as above; dry. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0' bgs. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Same as above with weathered limestone interbeds. Description from soil cuttings. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Description from soil cuttings. Description from soil cuttings. Description from soil cuttings.	7 -	7						
Same as above; dry. Description from soil cuttings. Sample BKSB114 collected 11.0-12.0' bgs. Same as above; dry. Same as above; more silt; dry; hard; brittle; non-plastic. Same as above with weathered limestone interbeds. Sample BKSB115 collected 15.0-15.5' bgs. Description from soil cuttings. Description from soil cuttings. Sample BKSB116 collected 22.0-22.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs.							Description	on from soil cuttings.
Same as above; dry; moderately plastic. Sample BKSB114 collected 11.0-12.0' bgs. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Same as above with weathered limestone interbeds. Same as above; dry; moderately plastic. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Description from soil cuttings. Description from soil cuttings. Sample BKSB116 collected 22.0-22.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs.			CL			Same as above; dry.		
Same as above; dry; moderately plastic. Sample BKSB114 collected 11.0-12.0' bgs. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Same as above with weathered limestone interbeds. Same as above with weathered limestone interbeds. CL Same as above; more silt; dry; hard; brittle; non-plastic. Same as above with weathered limestone interbeds. Description from soil cuttings. Description from soil cuttings. Sample BKSB115 collected 15.0-15.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs.	11 -	11		//				
Same as above; more silt; dry; hard; brittle; non-plastic. Same as above with weathered limestone interbeds. Sample BKSB115 collected 15.0-15.5' bgs. Description from soil cuttings. Description from soil cuttings. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit						Same as above; dry; moderately plastic.	Sample B	SKSB114 collected 11.0-12.0' bgs.
Same as above; more silt; dry; hard; brittle; non-plastic. Sample BKSB115 collected 15.0-15.5' bgs. Sample BKSB115 collected 15.0-15.5' bgs. Description from soil cuttings. CL 21 - 21 22 - 22 Same as above; more silt; dry; hard; brittle; non-plastic. Description from soil cuttings. Sample BKSB116 collected 22.0-22.5' bgs. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Better of Region at 24.0' because of Region	13 -	13				Same as above; dry.	Description	on from soil cuttings.
Same as above; more silt; dry; hard; brittle; non-plastic. Sample BRSB115 collected 15.0-15.5 bgs. Sample BRSB115 collected 15.0-15.5 bgs. Description from soil cuttings. Description from soil cuttings. Sample BRSB115 collected 22.0-25 bgs. Description from soil cuttings. Sample BRSB116 collected 22.0-22.5' bgs.	14	14						
Same as above with weathered limestone interbeds. Description from soil cuttings. Description from soil cuttings. Description from soil cuttings. Same as above; dry. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit	15	15	CL			Same as above; more silt; dry; hard; brittle; non-plastic.	Sample B	SKSB115 collected 15.0-15.5' bgs.
Description from soil cuttings. Description from soil cuttings. Description from soil cuttings. Description from soil cuttings. Same as above; dry. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit	16	16				Same as above with weathered limestone interbeds.		
19 - 19 20 - 20 CL 21 - 21 22 - 22 Same as above; dry. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit							Dosorintia	on from call cuttings
2020 CL 2121 2222 Same as above; dry. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit							Description	on nom son cullings.
Same as above; dry. Sample BKSB116 collected 22.0-22.5' bgs. Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit			CL					
Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit	21	21						
Blue-gray weathered limestone; dry; hard drilling to 24.0'. Soil colors from Munsell Soil Color Chart, 1992 Revised Edit	22 -	22				Same as above; dry.	Sample B	SKSB116 collected 22.0-22.5' bgs.
						Blue-gray weathered limestone; dry; hard drilling to 24.0'.		
	24 +	24	ıs			Bottom of Boring at 24.0' bgs.	Soil colors	s from Munsell Soil Color Chart, 1992 Revised Editi



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10-20-1999

RCRA Facilities Investigation Fort Hood, Texas

U. S. Army Corp of Engineers

Fort Worth District

Fort Worth, Texas

Boring FHBKG-SB106

(Page 1 of 1)

FHBKG : Background
Start Date : 12/12/96
End Date : 12/12/96
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Boring : 25.5 feet

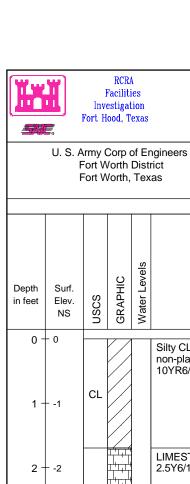
Drilling Company : Terra-Mar

Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger

Geologist : Jeff DeVaughn
Depth to Bedrock : 25.5 feet
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers

: CME Sampler 5' long

					Total Depth of Boring : 25.5 feet		: CME Sampler 5' long
Depth in feet	Surf. Elev. NS	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 - 1 - 2 -	1	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 2.5Y7/6 yellow and 10YR6/6 brownish yellow.	Sample	BKSB117 collected 0.0-1.0' bgs.
3 - 4 -					Same as above with weathered limestone interbeds.	Geotec	chnical sample collected 3.0-4.0' bgs.
5 - 6 - 7 -	5 6 7	CL			Same as above with trace sand; dry.	Descrip	otion from soil cuttings.
8 - 9 - 10 -	9				Silty SAND, fine; dry; non-plastic; carbonate (HCL fizz); 2.5Y8/4 pale yellow.	Sample	BKSB118 collected 9.0-9.5' bgs.
11 - 12 - 13 -	12 13	SM			Same as above; dry. Same as above except color change to 19YR8/2 very pale brown.		
14 - 15 - 16 -	15	SP			Same as above SAND, fine; except no silt.	Sample	BKSB119 collected 14.0-14.5' bgs.
17 - 18 - 19 -	18	01			Same as above; dry.	Descrip	otion from soil cuttings.
20 -	20	SW	· · · · · · · · · · · · · · · · · · ·		SAND, fine; dry; soft; non-carbonate; 2.5Y8/4 pale yellow.	Sample	BKSB120 collected 19.0-20.0' bgs.
22 - 23 - 24 -	22 23 24	LS			Same as above; dry. LIMESTONE, weathered; dry; tan.	- Descrip	otion from soil cuttings.
25 - 26 - 27 -	25 26 27	LO			Blue-gray weathered limestone; dry. Bottom of Boring at 25.5' bgs.		
28 - 29 -	28 29					Soil col	lors from Munsell Soil Color Chart, 1992 Revised Edition
30 -							



RCRA

Facilities

Investigation

Boring FHBKG-SB107

(Page 1 of 1)

FHBKG : Background Start Date : 12/12/96 End Date : 12/12/96 Northing Coord. : 3438421.71 m

Easting Coord. : 612222.83 m UTM 14 North

Total Depth of Boring : 6.0 feet

Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : 1.7 feet Depth Drilled Into Rock: 4.3 feet **Borehole Diameter** : 8 inches

Sampling Equipment : 4.25" Augers : CME Sampler 5' long

					Total Depth of Boring : 6.0 feet		: CME Sampler 5' long
Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 -	- 0				Silty CLAY; weathered limestone fragments; dry; hard; non-plastic; mottled 10YR6/8 brownish yellow and 10YR6/2 light brownish gray.	Sample	BKSB124 collected 0.0-1.0' bgs.
1 -	1	CL					
2 -	2				LIMESTONE, weathered, fossiliferous; Blue-Gray; 2.5Y6/1 gray.		
3 -	3					Descrip	otion from soil cuttings.
4 -	4	LS			Same as above	Sample	BKSB125 collected 4.0-4.5' bgs.
5 -	- -5				Same as above	Descrip	otion from soil cuttings.
6 -	- -6				Bottom of Boring at 6.0' bgs.	Sample	BKSB126 collected 5.5-6.0' bgs.
7 -	7						
8 -	8					Soil col	ors from Munsell Soil Color Chart, 1992 Revised Edit
9 -	9						
10 -							



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10-20-1999

RCRA Facilities Investigation Fort Hood, Texas

U. S. Army Corp of Engineers

Fort Worth District

Fort Worth, Texas

Boring FHBKG-SB108 (Page 1 of 1)

: Surveyed

FHBKG : Background
Start Date : 01/14/97
End Date : 01/14/97
Northing Coord. : Not

Easting Coord.

Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 2.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers

		-	-	Total Depth of Boring : 17.0 feet		: CME Sampler 5' long
Depth Surf. in feet Elev. NS	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 + 0				Topsoil 0.0-0.4'	Sample	BKSB135 collected 0.0-1.0' bgs.
11				Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 10YR6/8 brownish yellow.	Sample	PASE 133 Collected 0.0-1.0 bgs.
22				Same as above; dry.	Descrip	otion from soil cuttings.
4 + -4 5 + -5				Same as above; dry; mottled with 2.5Y7/3 pale yellow.	Sample	BKSB136 collected 5.0-5.5' bgs.
6 + -6	CL			Same as above; dry.	Descrip	otion from soil cuttings.
8 + -8 9 + -9 10 + -10				Same as above; dry.	Sample	BKSB137 collected 9.0-9.5' bgs.
1111 1212 1313				Same as above; dry.	Descrip	otion from soil cuttings.
1414				Same as above; less silty; dry. Same as above; dry.	Sample	BKSB138 collected 14.0-14.5' bgs.
15 + -15 16 + -16	LS			LIMESTONE, weathered; blue-gray.		
1717		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Same as above; dry. Bottom of Boring at 17.0' bgs.		BKSB139 collected 16.5-17.0' bgs.
18 + -18					Soil cold	ors from Munsell Soil Color Chart, 1992 Revised Edition.
1919						
	1	1 '	1	·	1	



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RCRA Facilities Investigation Fort Hood, Texas

Fort Worth District

Fort Worth, Texas

U. S. Army Corp of Engineers

Boring FHBKG-SB109

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 FHBKG
 : Background

 Start Date
 : 01/15/97

 End Date
 : 01/15/97

 Northing Coord.
 : 3471041.79 m

Easting Coord. : 626015.26 m UTM 14 North

Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar

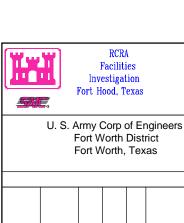
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger

Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered

Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers

: CME Sampler 5' long

					Total Depth of Boring : 24.0 feet		: CME Sampler 5' long
Depth in feet	Surf. Elev. 730.62ft	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 - 1 - 2 -	- 730 - 729				Silty CLAY; trace roots; trace rock fragments <1cm, angular to subrounded; damp; highly plastic; 5YR2.5/1 black. Same as above; damp.	Sample	BKSB140 collected 0.0-1.0' bgs.
3 - 4 - 5 -	- 728 - 727 - 726	CL			Same as above; damp.		otion from soil cuttings. BKSB141 collected 4.0-5.0' bgs.
6 - 7 -	- 725 - 724 - 723				Silty CLAY; trace weathered limestone fragments; dry; stiff; non-plastic; 7.5YR6/4 light brown.	-	
9 -	- 722 - 721				Some sand, fine, from 8-9' bgs. Same as above; dry.		e BKSB142 collected 9.0-10.0' bgs.
11 - 12 -	- 720 - 719				Same as above except rock fragments (mostly weathered limestone) up to 20% of total matrix.		
13 ⁻	- 718 - 717				Same as above; dry.	Descrip	otion from soil cuttings.
15 ⁻ 16 ⁻	- 716 - 715	CL			Same as above; with limestone fragments up to 40%; also 10% fine sand; dry.	Sample	BKSB143 collected 14.5-15.0' bgs.
17 - 18 -	- 714 - 713 - 712				Same as above; dry.	Descrip	otion from soil cuttings.
20 -	- 711 - 710				Same as above; dry.		BKSB144 collected 19.0-19.3' bgs.
21 -	- 709 - 708				Same as above; dry.	Descrip	otion from soil cuttings.
24 -	- 707	SM			Silty SAND, fine to medium; moist; soft; moderately plastic; 7.5Y6/8 reddish yellow and 7.5 YR7/1 light gray.	Water i	n hole, attempted sample, no recovery in gravel at 24'
25 -	706	GP			Bottom of boring at 24.0' bgs. GRAVEL,angular;saturated	Soil col	ors from Munsell Soil Color Chart, 1992 Revised Edition.



RCRA Facilities Investigation Fort Hood, Texas

Fort Worth District

Fort Worth, Texas

Boring FHBKG-SB110

(Page 1 of 1)

FHBKG : Background Start Date : 12/13/96 End Date : 12/13/96 Northing Coord. : 3472081.13 m

Easting Coord. : 626432.83 m UTM 14 North

Total Depth of Boring : 34.5 feet

Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger Geologist : Jeff DeVaughn Depth to Bedrock : Not Encountered

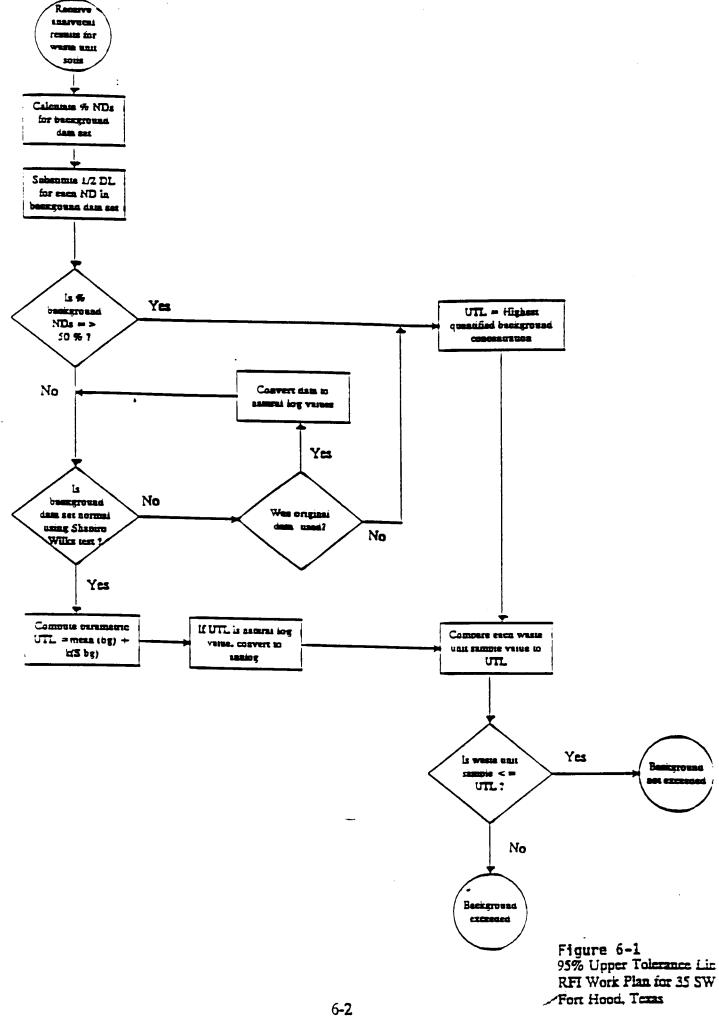
Depth Drilled Into Rock: NA Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

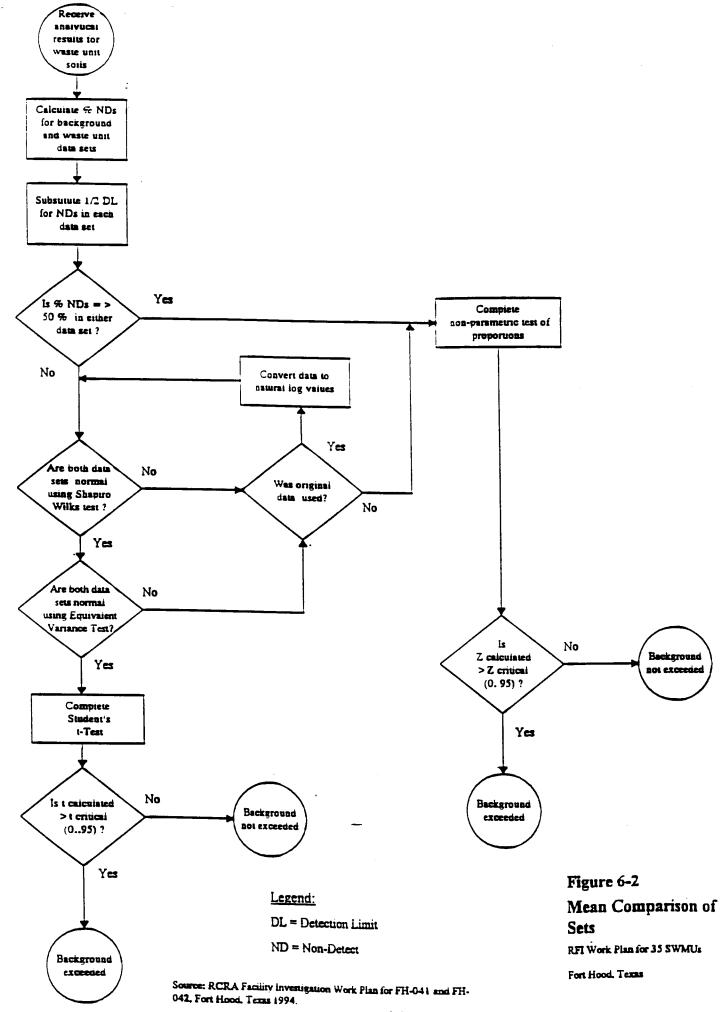
: CME Sampler 5' long

					Total Depth of Boring : 34.5 feet		: CME Sampler 5' long		
in feet El 729	urf. lev. 9.66ft	USCS GRAPHIC Water Levels			DESCRIPTION	REMARKS			
0 - 1 - 72 2 - 72 3 - 72 4 - 72 5 - 72 6 - 72	28 27 26 25	SM			SAND, fine to medium; some silt; damp; soft; non-plastic; 7.5YR5/6 strong brown. Same as above; damp to moist. Clayey SAND; damp; firm; moderately plastic; 2.5YR4/6 red. Same as above; damp.	·	collected 0.0-1.0' bgs.		
7 - 72 8 - 72 9 - 72 10 - 72 11 - 71	22 21 20	sc			Same as above; damp. Same as above; damp. Same as above; slightly less clay; dry.	·	ole collected 8.0-9.0' bgs.		
12 - 71 13 - 71 14 - 71 15 - 71 16 - 71 17 - 71 18 - 71	16 15 14 13				Same as above; dry. Same as above; less clay; dry; color change 5YR5/6 yellowish red. Same as above; dry. Same as above; dry;	Sample BKSB130 o	collected 15.0-16.0' bgs.		
19 - 71 20 - 71 21 - 70 22 - 70 23 - 70	10 09 08				Same as above; more clay; dry. Silty CLAY; trace sand; trace tan weathered limestone fragments; dry; hard; 7.5YR6/6 reddish yellow. Same as above; dry. Same as above; dry.	Sample BKSB131 o	collected 20.0-21.0' bgs.		
24 - 70 25 - 70 26 - 70 27 - 70 28 - 70	05 04 03 02	CL			Same as above; dry. Same as above; dry.	Sample BKSB132 o	collected 25.0-26.0' bgs.		
29 - 70 30 - 70 31 - 69 32 - 69	00 99 98				Same as above; with more silt; moist; softer. Same as above; except very silty; damp; soft.	Sample BKSB133 o	collected 30.0-31.0' bgs.		
33 - 69 34 - 69 35 - 69 36 - 69 37 - 69	96 95 94	SM GW			Silty SAND, fine; trace gravel and coarse sand at bottom; saturated; non-plastic; 7.5Y6/6 reddish yellow. SAND, coarse, and GRAVEL, poorly sorted, angular to round; saturated; 1.5 water in hole. Bottom of boring at 34.5' bgs.	Sample BKSB134 o	collected 34.0-34.5' bgs.		
38 - 69 39 - 69 40 - 69	91					Soil colors from Mu	insell Soil Color Chart, 1992 Revised Edit		

APPENDIX E

Statistical Calculations





smp id	Merc	DUPLICAT	Arsenic		Doda	
smp_1a	Merc	ury	Arsenic		Barium	
	D 14 ()	01	D14 ()	D 14	0.1	T ()
DVaniai	Result (x)	Qual	Result (x)	Result	Qual	Ln(x)
BKSB101	0.04 (_	3	21.3		3.0587070
BKSB102	0.04 [2	8		2.0794415
BKSB103	0.04 [9.1	14.7		2.6878474
BKSB105	0.04 [4.3		J	3.1527360
BKSB106		U	4.4	43.7	J	3.777348
BKSB107		Ŭ				
BKSB109		Ŭ ·	3.5	155	J	5.0434251
BKSB110		Ŭ	4.8	24.1	J	3.1822118
BKSB111		Ŭ	5.2	7.2		1.9740810
BKSB113	0.04 (5.7	20.5	J	3.0204248
BKSB114	0.04	U	5.2	25.2	J	3.2268439
BKSB115	0.04	Ŭ	5.3	10.6	J	2.36085
BKSB116	0.04 [11.6	4.9	J	1.5892352
BKSB118	0.04	U	2.6	4.4	J	1.4816045
BKSB119	0.04 (U	0.66	3		1.0986122
BKSB120	0.04	U	0.44	2		0.6931471
BKSB122	0.04 1	U	3.2	6.1		1.8082887
BKSB123	0.04 1	U	3.8	5.5		1.7047480
BKSB125	0.04	U	3.2	18.1		2.8959119
BKSB126	0.04 [U	2.5	5.4		1.6863989
BKSB128	0.04		3.6	36.3		3.591817
BKSB129	0.04	U	2.6	26.3		3.2695689
BKSB130	0.04 1	U	1	8.1		2.0918640
BKSB131		U	5.3	65.9		4.1881384
BKSB132	0.04 1		4.2	41.7		3.730501
BKSB133	0.04		3.2	68.6		4.2282925
BKSB134	0.04		2.9	20.1		3.000719
BKSB136	0.04		4.3	14.8	т	2.694627
BKSB137		U	8.2	7.8		2.054123
BKSB138		U	9.2	12.2	_	2.5014359
	0.04 0			ļ		
BKSB139			7.6	7.3		1.9878743
BKSB141	0.04		5.6	127		4.8441870
BKSB142	0.04		3.8	63		4.143134
BKSB143	0.04		3.8	39.3		3.671224
BKSB144	0.04		3.7	36.1		3.586292
BKSB104	0.04		6.2	28.2		3.3393219
BKSB108	0.04		6	72.4		4.28220
BKSB112	0.04		1.6	6.6		1.887069
BKSB117	0.04		4.4	27.9	J	3.328626
BKSB121	0.04 1		4.1	24		3.1780538
BKSB124	0.04	U	6	19.3		2.96010
BKSB127	0.04	U	1.9	18.8		2.933856
BKSB135	0.04	U	2.7	15.4	J	2.734367
BKSB140	0.04	U	4.8	108	J	4.6821313
6nondetects=	0.04	0.95744681			0	
Distribution	D		N	*		L
Mean	0.04	•	4.35348837	30.1906977		2.917009
td dev	0		2.29920368			1.018594
1	44		43	43		4
<	2.097		2.102			2.10
JTL	0.04		9.1864145			5.05809
JTL(ln)=exp(me						157.2907

Soil Background				-			
smp_id		Cadn	กเมชา			Chromium	
			1/2				
	Result (x)	Qual	nondetects	Ln(x)	Result (x)	Qual	Ln(x)
BK\$B101	0.12		0.12	-2.1202635	5.1	· · · · · · · · · · · · · · · · · · ·	1.62924054
BKSB102	0.05		0.05	-2.9957323	10.3		2.3321439
BKSB103	0.05	TT	0.025	-3.6888795	10.1		2.31253542
BKSB105	0.11		0.023	-2.2072749	4	J	1.38629436
BKSB106	0.16		0.16	-1.8325815	7.6		2.02814825
BKSB107	0.35		0.35	-1.0498221	5.1	J	1.62924054
BKSB109	0.07		0.07	-2.65926	6.5	J	1.87180218
BKSB110	0.06		0.06	-2.8134107	16.6		2.8094027
BKSB111	0.05		0.05	-2.9957323	6.2	-	1.82454929
BKSB113	0.07		0.07	-2.65926		J	2.18605128
BKSB114	0.07	TT	0.07	-3.6888795	20.3		
BKSB114	0.05	U.	0.023	-2.8134107	7.3		3.01062089 1.98787435
BKSB116	0.08		0.06	-1.6094379	2.7	J	
							0.99325177
BKSB118	0.19		0.19	-1.6607312	2.2	J	0.78845736
BKSB119	0.06	* *	0.06	-2.8134107	2.1		0.74193734
BKSB120	0.04	U	0.02	-3.912023	0.93		-0.0725707
BKSB122	0.06		0.06	-2.8134107	4.9		1.58923521
BKSB123	0.08		0.08	-2.5257286	4.3		1.45861502
BKSB125	0.11		0.11	-2.2072749	5.1		1.62924054
BKSB126	0.06		0.06	-2.8134107	5.5		1.70474809
BKSB128	0.05		0.025	-3.6888795	8.5		2.14006616
BKSB129	0.04	U	0.02	-3.912023	4.6		1.5260563
BKSB130	0.07		0.07	-2.65926	1.8		0.58778666
BKSB131	0.15		0.15	-1.89712	7.7		2.04122033
BKSB132	0.04	U	0.02	-3.912023	5.9		1.77495235
BKSB133	0.11		0.11	-2.2072749	4.9		1.58923521
BKSB134	0.08		0.08	-2.5257286	1.2		0.18232156
BKSB136	0.2		0.2	-1.6094379	8.3		2.11625551
BKSB137	0.18	J	0.18	-1.7147984	8.1		2.09186406
BKSB138	0.21	J	0.21	-1.5606477	11.1		2.40694511
BKSB139	0.2	J	0.2	-1.6094379	8.4		2.12823171
BKSB141	0.45	J	0.45	-0.7985077	23.6		3.16124671
BKSB142	0.29	J	0.29	-1.2378744	8.4		2.12823171
BKSB143	0.27	J	0.27	-1.3093333	12.2		2.50143595
BKSB144	0.2	J	0.2	-1.6094379	6.5	i	1.87180218
BKSB104	0.15		0.15	-1.89712	3.1	J	1.13140211
BKSB108	0.2		0.2		12.9		2.55722731
BKSB112	0.04	U	0.02			J	1.38629436
BKSB117	0.18		0.18		5.7	· · · · · · · · · · · · · · · · · · ·	1.74046617
BKSB121	0.18		0.18	-	6.3		1.84054963
BKSB124	0.11		0.11	-2.2072749	7.2		1.97408103
BKSB127	0.04	U	0.02	-3.912023	3.7		1.30833282
BKSB135	0.17		0.17		6.1		1.80828877
BKSB140	0.79		0.79	-0.2357223	16.1	-	2.77881927
%nondetects=	0.72	0.19148936	<u> </u>	0.2001220	10.1	0	2.77001927
Distribution		5.17140750	<u>.</u>	L		l	L
Mean	0.14545455			-2.343338	7.31886364		1.78668026
std dev	0.14343433			0.92656476	4.7817999		
	0.13473999						0.68062712
n K				2 007	3 007		2 007
	2.097			2.097	2.097		2.097
UTL	0.4280462			-0.400332	17.346298		3.2139553
UTL(In)=exp(me	L		L	0.6700977		İ	24.87729

oil Background							
smp_id		Lead		Sele	nium	Sil	ver
•							
DVaDioi	Result (x)	Qual	Ln(x)	Result (x)	Qual	Result (x)	Qual
BKSB101	6		1.79175947	0.37		0.24	U
BKSB102	5		1.60943791	0.36		0.23	
BKSB103	9.5		2.2512918	0.38		0.24	
BKSB105	3.9		1.36097655	0.33		0.21	
BKSB106	5		1.60943791	0.33		0.21	
BKSB107		J	1.80828877	0.36		0.23	
BKSB109	3.2		1.16315081	0.34		0.22	
BKSB110	7.8		2.05412373	0.36		0.23	
BKSB111	5.3		1.66770682	0.35		0.22	
BKSB113	6		1.79175947	0.36		0.23	
BKSB114	7.7		2.04122033	0.38		0.24	
BKSB115		J	1.62924054	0.32		0.2	
BKSB116	5.6		1.7227666	0.33			
BKSB118		J	1.30833282	0.34	_	0.21	U
BKSB119		J	0.26236426		U	0.21	U
BKSB120	0.72		-0.3285041	0.32			
BKSB122	4.1	J	1.41098697	0.33	U	0.21	U
BKSB123	3.8		1.33500107	0.33	U	0.21	U
BKSB125	1.7		0.53062825	0.36		0.2	U
BKSB126	1.5	J	0.40546511	0.44		0.21	U
BKSB128	7.5	J	2.01490302	0.35	-	0.22	U
BKSB129	4.1	J	1.41098697	0.33	U	0.21	U
BKSB130	3.1	J	1.13140211	0.32	U	0.2	U
BKSB131	10.1	J	2.31253542	0.34	U	0.22	U
BKSB132	7.8	J	2.05412373	0.34	U	0.21	U
BKSB133	6.3	J	1.84054963	0.35	U	0.22	U
BKSB134	2.3	J	0.83290912	0.33	U	0.21	U
BKSB136	3	J	1.09861229	0.32	R	0.22	U
BKSB137	2.3	J	0.83290912	0.31	R	0.21	U
BKSB138	4.1	J	1.41098697	0.32	R	0.22	U
BKSB139	3.6	J	1.28093385	0.31	R	0.21	Ü
BKSB141	12.1		2.49320545	1.8	R	0.25	
BKSB142	5	J	1.60943791	1.9		0.25	U
BKSB143	6.6	J	1.88706965	0.35		0.24	
BKSB144	4	J	1.38629436		R	0.21	U
BKSB104	5.3		1.66770682	0.32		0.21	
BKSB108	9.8		2.28238239	0.37		0.23	
BKSB112	1.5		0.40546511	0.32		0.23	
BKSB117	8.3		2.11625551	0.32		0.21	
BKSB121	10.2		2.32238772	0.33		0.21	
BKSB124	4.5		1.5040774	0.34		0.22	
BKSB127	3.8		1.33500107	0.34		0.21	
BKSB135	2.5		0.91629073	1.5			
BKSB140	33.2		3.50254988			0.21	
onondetects=	33.2	0	3.30234988	0.35	I.	0.24	U
onondetects= Distribution			T	<u> </u>		<u> </u>	
	5 77210102		L 1.52441944	D 0.246		D	
Mean	5.77318182	-	1.52441844			0.21795455	ļ
td dev	4.99838289			0.02427744		0.01390659	
1	44		44			<u> </u>	ļ
(2.097 16.254791		2.097 2.9463964			ļ	ļ
JTL							

Shapiro Wilk for Barium

	Bkgd Conc	Ordered	Reverse Ordered	Difference x(n-		
	(xi) (mg/kg)	Conc. x(i)	x(n-i+1)	i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	21.3	2	155	153	0.3894	59.5782
BKSB102	8	3	127	124	0.2684	33.2816
BKSB103	14.7	4.4	108	103.6	0.2334	24.18024
BKSB105	23.4	4.9	72.4	67.5	0.2078	14.0265
BKSB106	43.7	5.4	68.6	63.2	0.1871	11.82472
BKSB107		5.5	65.9	60.4	0.1695	10.2378
BKSB109	155	6.1	63	56.9	0.1539	8.75691
BKSB110	24.1	6.6	43.7	37.1	0.1398	5.18658
BKSB111	7.2	7.2	41.7	34.5	0.1269	4.37805
BKSB113	20.5	7.3	39.3	32	0.1149	3.6768
BKSB114	25.2	7.8	36.3	28.5	0.1035	2.94975
BKSB115	10.6	8	36.1	28.1	0.0927	2.60487
BKSB116	4.9	8.1	28.2	20.1	0.0824	1.65624
BKSB118	4.4	10.6	27.9	17.3	0.0724	1.25252
BKSB119	3	12.2	26.3	14.1	0.0628	0.88548
BKSB120	2	14.7	25.2	10.5	0.0534	0.5607
BKSB122	6.1	14.8	24.1	9.3	0.0442	0.41106
BKSB123	5.5	15.4	24	8.6	0.0352	0.30272
BKSB125	18.1	18.1	23.4	5.3	0.0263	0.13939
BKSB126	5.4	18.8	21.3	2.5	0.0175	0.04375
BKSB128	36.3	19.3	20.5	1.2	0.0087	0.01044
BKSB129	26.3	20.1	20.1	0	0	0
BKSB130	8.1	20.5	19.3	-1.2		0
BKSB131	65.9	21.3	18.8	-2.5		0
BKSB132	41.7	23.4	18.1	-5.3	D'	105 04422
BKSB133	68.6	24	15.4	-8.6 -9.3	sum Bi=	185.94432
BKSB134 BKSB136	20.1 14.8	24.1 25.2	14.8		W/O 05 42)	0.042
BKSB137	7.8	26.3	12.2	-10.3	W(0.05,43) W=	0.943 0.73470973
BKSB138	12.2	27.9	10.6	-17.3	W -	0.73470973
BKSB139	7.3	28.2	8.1	-20.1		
BKSB141	127	36.1	8.1	-28.1		
BKSB142	63	36.3	7.8	-28.5	 	· · · · · · · · · · · · · · · · · · ·
BKSB143	39.3	39.3	7.3	-32		
BKSB144	36.1	41.7	7.2	-34.5		
BKSB104	28.2	43.7		-37.1		
BKSB108				-56.9		
BKSB112				-60.4	· · · · · · · · · · · · · · · · · · ·	
BKSB117	27.9	68.6	 		·	
BKSB121	24	72.4		.		
BKSB124	19.3	108	4.4	-103.6		
BKSB127	18.8	127	3		!	l
BKSB135	15.4	155	2	-153		
BKSB140	108			0		
Sum of xi	1298.2					
Mean	30.19069767					
n=	43					
sum of xi^2	86253.36					
1/n=	0.023255814	 				
xi=(sum xi)^2	1685323.24	 	ļ			
d=	47059.79628	}				
W=	0.734709728					<u> </u>
W(0.05,43)=	0.943	<u>, , , , , , , , , , , , , , , , , , , </u>	 		ļ	
W <w(0.5,43), dis<="" td=""><td>stribution is not</td><td>Normal</td><td><u> </u></td><td><u> </u></td><td>L</td><td><u> </u></td></w(0.5,43),>	stribution is not	Normal	<u> </u>	<u> </u>	L	<u> </u>

Shapiro Wilk for Barium

	t6dd		1CD	D:00		
	In of ordered Conc. x(i)		In of Reverse	Difference	n/m i + 1\	h/i)
	0.693147181	0.49045201	Order x(n-i+1)	4.35027794		b(i)
	1.098612289					1.693998228
	1.481604541				0.2684	1.005312276
	1.589235205	-	4.682131227 4.282206299	3.20052669 2.69297109	0.2334	0.747002929
	1.686398954		4.282206299	2.54189358	0.2078 0.1871	0.559599393
	1.704748092		4.188138442	2.48339035	0.1695	0.475588289
	1.808288771		4.143134726			0.420934664
	1.887069649		3.777348102	1.89027845	0.1539	0.359332793
	1.974081026		3.777348102	1.7564201	0.1398	0.264260928
	1.987874348				0.1269	0.222889711
	2.054123734		3.671224519		0.1149	0.193416935
	2.079441542		3.591817741		0.1035	0.15915133
			3.586292865		0.0927	0.139685118
	2.091864062		3.339321978		0.0824	0.102790532
<u> </u>	2.360854001		3.328626689		0.0724	0.070066743
	2.501435952		3.269568939		0.0628	0.048238752
	2.687847494		3.226843995	0.5389965	0.0534	0.028782413
	2.694627181		3.18221184		0.0442	0.021551242
	2.734367509		3.17805383		0.0352	0.015617758
	2.895911938		3.152736022	0.25682408	0.0263	0.006754473
		8.60751613	3.058707073	0.1248502	0.0175	
	2.960105096		3.020424886	0.06031979	0.0087	0.000524782
	3.000719815		3.000719815	0		0
	3.020424886		2.960105096	}		0
	3.058707073		2.93385687			0
	3.152736022	9.93974443	2.895911938	-0.2568241		
	3.17805383	10.1000261	2.734367509	-0.4436863		6.537684167
	3.18221184	10.1264722	2.694627181	-0.4875847		
	3.226843995	10.4125222	2.687847494	-0.5389965	W(0.05,43)	0.943
<u>,</u>	3.269568939	10.690081	2.501435952	-0.768133	W(ln)=	0.98083423
	3.328626689	11.0797556	2.360854001	-0.9677727		
	3.339321978	11.1510713	2.091864062	-1.2474579		
	3.586292865	12.8614965	2.079441542	-1.5068513		
	3.591817741	12.9011547	2.054123734	-1.537694		
	3.671224519	13.4778895	1.987874348	-1.6833502		
	3.730501129	13.9166387	1.974081026	-1.7564201		
	3.777348102	14.2683587	1.887069649	-1.8902785		
	4.143134726	17.1655654	1.808288771	-2.334846		
	4.188138442	17.5405036	1.704748092	-2.4833903		<u> </u>
	4.228292535			 		
	4.282206299					
	4.682131227				·	
	4.844187086				 	1
	5.043425117		0.693147181	-4.3502779		
Sum of xi	125.4314103	1	125.4314103			
					-	
Mean	2.917009542		 			
n=	43	 	 			
sum of xi^2	409.4611119			 	 	
1/n=	0.023255814		 	l		
xi=(sum xi)^	15733.03869			 		
d=	43.57649126			 		
—				 		ļ
W(ln)=	0.98083423				<u> </u>	
W(0.05,43)	0.943	L.,		ļ	ļ	
W > W(0.5,43)), distribution is	iognormai	L	L	<u> </u>	

Shapiro Wilk for Cadmium

			Ordered	Reverse Ordered x(n-	Difference x(n-			
smp id	Cadmium	(xi)^2	Conc. x(i)	,	i+1)-x(i)	a(n-i+1)	b(i)	smp id
BKSB101	0.12	0.0144	0.02	0.79	0.77	0.3872	` ′	BKSB101
BKSB102	0.05	0.0025	0.02	0.45	0.43	0.2667		BKSB102
BKSB103	0.025	0.00063	0.02	0.35	0.33	0.2323		BKSB103
BKSB104	0.15	0.0225	0.02	0.29	0.27	0.2072	0.055944	BKSB104
BKSB105	0.11	0.0121	0.02	0.27	0.25	0.1868	0.0467	BKSB105
BKSB106	0.16	0.0256	0.025	0.21	0.185	0.1695	0.031358	BKSB106
BKSB107	0.35	0.1225	0.025	0.2	0.175	0.1542	0.026985	BKSB107
BKSB108	0.2	0.04	0.025	0.2	0.175	0.1405	0.024588	BKSB108
BKSB109	0.07	0.0049	0.05	0.2	0.15	0.1278	0.01917	BKSB109
BKSB110	0.06	0.0036	0.05	0.2	0.15	0.116	0.0174	BKSB110
BKSB111	0.05	0.0025	0.06	0.2	0.14	0.1049	0.014686	BKSB111
BKSB112	0.02	0.0004	0.06	0.19	0.13	0.0943	0.012259	BKSB112
BKSB113	0.07	0.0049	0.06	0.18	0.12	0.0842	0.010104	BKSB113
BKSB114	0.025	0.00063	0.06	0.18	0.12	0.0745	0.00894	BKSB114
BKSB115	0.06	0.0036	0.06	0.18	0.12	0.0651	0.007812	BKSB115
BKSB116	0.2	0.04	0.07	0.17	0.1	0.056	0.0056	BKSB116
BKSB117	0.18	0.0324	0.07	0.16	0.09	0.0471	0.004239	BKSB117
BKSB118	0.19	0.0361	0.07	0.15	0.08	0.0383	0.003064	BKSB118
BKSB119	0.06	0.0036	0.08	0.15	0.07	0.0296	0.002072	BKSB119
BKSB120	0.02	0.0004	0.08	0.12	0.04	0.0211	0.000844	BKSB120
BKSB121	0.18	0.0324	0.11	0.11	0	0.0126	0	BKSB121
BKSB122	0.06	0.0036	0.11	0.11	0	0.0042	0	BKSB122
BKSB123	0.08	0.0064	0.11	0.11	0	0	0	BKSB123
BKSB124	0.11	0.0121	0.11	0.11	0		0	BKSB124
BKSB125	0.11	0.0121	0.12	0.08	-0.04			BKSB125
BKSB126	0.06	0.0036	0.15	0.08	-0.07	Sum of b=	0.781248	BKSB126
BKSB127	0.02	0.0004	0.15	0.07	-0.08			BKSB127
BKSB128	0.025	0.00063	0.16	0.07	-0.09	W=	0.744801	BKSB128
BKSB129	0.02	0.0004	0.17	0.07	-0.1	W(0.05,44)	0.944	BKSB129
BKSB130	0.07	0.0049	0.18	0.06	-0.12			BKSB130
BKSB131	0.15	0.0225	0.18	0.06	-0.12			BKSB131
BKSB132	0.02	0.0004	0.18	0.06	-0.12			BKSB132
BKSB133	0.11	0.0121	0.19	0.06	-0.13			BKSB133
BKSB134	0.08	0.0064	0.2	0.06	-0.14			BKSB134
BKSB135	0.17	0.0289	0.2	0.05	-0.15			BKSB135
BKSB136	0.2	0.04	0.2	0.05	-0.15			BKSB136
BKSB137	0.18	0.00063	0.2	0.025	-0.175			BKSB137
BKSB138	0.21	0.0225	0.2	0.025	-0.175			BKSB138
BKSB139	0.2	0.0121	0.21	0.025	-0.185			BKSB139
BKSB140	0.79	0.0256	0.27	0.02	-0.25			BKSB140
BKSB141	0.45	0.1225	0.29	0.02	-0.27	l .		BKSB141
BKSB142	0.29	0.04	0.35	0.02	-0.33		I	BKSB142
BKSB143	0.27	0.0049	0.45	0.02	-0.43			BKSB143
BKSB144	0.2	0.0036	0.79	0.02	-0.77			BKSB144
Sum of xi	6.225					1		Sum of xi
Mean	0.14147727					T .		Mean
n=	44]]		n=
sum of xi^2	1.700175							sum of xi^2
1/n=	0.02272727							1/n=
xi=(sum xi)^2	38.750625					Ī	T	xi=(sum xi)^2
d=	0.81947898	<u> </u>	T	Ī	1		1	d=
W=	0.7448006				1			W=
W(0.05,44)=	0.944	 	1		1	<u> </u>	1	W(0.05,44)=
W <w(0.5,44),< td=""><td></td><td>4</td><td>mal</td><td></td><td>1</td><td> </td><td></td><td>W<w(0.5,44),< td=""></w(0.5,44),<></td></w(0.5,44),<>		4	mal		1	 		W <w(0.5,44),< td=""></w(0.5,44),<>
,,,,,	1			1				1
		1	<u> </u>		<u> </u>			1
			1		1			I .

Shapiro Wilk for Cadmium

1		In of Reverse	D:00		
In of ordered Conc. x(i)	ln(xi)^2	Order x(n- i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
-3.912023005		-0.2357223	3.67630067	0.3872	1.42346362
-3.912023005		-0.7985077	3.11351531		0.83037453
-3.912023005		-1.0498221	2.86220088		0.66488926
-3.912023005		-1.2378744		0.2072	
-3.912023005		-1.3093333	2.60268969		0.48618243
-3.688879454		-1.5606477	2.12823171		0.36073527
-3.688879454	13.607832	-1.6094379	2.07944154		0.32064989
-3.688879454	13.607832	-1.6094379	2.07944154	0.1405	0.29216154
-2.995732274	8.9744119	-1.6094379	1.38629436		0.17716842
-2.995732274	8.9744119	-1.6094379	1.38629436	0.116	0.16081015
-2.813410717	7.9152799	-1.6094379	1.2039728	0.1049	0.12629675
-2.813410717	7.9152799	-1.6607312	1.15267951	0.0943	0.10869768
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0842	0.09250315
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0745	0.08184662
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0651	0.07151966
-2.659260037	7.0716639	-1.7719568	0.8873032	0.056	0.04968898
-2.659260037	7.0716639	-1.8325815	0.82667857	0.0471	0.03893656
-2.659260037	7.0716639	-1.89712	0.76214005	0.0383	0.02918996
-2.525728644	6.3793052	-1.89712	0.62860866	0.0296	0.01860682
-2.525728644	6.3793052	-2.1202635	0.40546511	0.0211	0.00855531
-2.207274913	4.8720625	-2.2072749	0	0.0126	0
-2.207274913		-2.2072749	0	0.0042	0
-2.207274913		-2.2072749	0	0	0
-2.207274913		-2.2072749	0		0
-2.120263536		-2.5257286	 		
-1.897119985		-2.5257286		Sum of b=	5.8963602
-1.897119985		-2.65926			
-1.832581464					0.94177684
-1.771956842	3.139831	-2.65926		W(0.05,44)	0.944
-1.714798428		-2.8134107	-1.09861229		
-1.714798428		-2.8134107	-1.09861229		
-1.714798428		-2.8134107			
-1.660731207		-2.8134107			
-1.609437912 -1.609437912					
-1.609437912		-2.9957323 -2.9957323			
-1.609437912		· · · · · · · · · · · · · · · · · · ·		.	
-1.609437912					
-1.560647748				<u> </u>	
-1.30933332					
-1.237874356					l
-1.049822124					
-0.798507696		• • • • • • • • • • • • • • • • • • • •			
-0.235722334				1	<u> </u>
-103.106874		3.712023	2.2,030007	 	
-2.343338046					
44		<u> </u>			
278.5307172	<u> </u>		_		
0.022727273			†	<u> </u>	<u> </u>
10631.02747				<u> </u>	†
36.91645655		1			——
0.941776836		<u> </u>	†	<u> </u>	t
0.944		1	<u>† </u>		
he distribution is		ely lognormal		<u> </u>	1
	T				1
		·	•	•	*

Shapiro Wilk Chromium

		Ordered	Reverse Ordered	Difference w/m	:	
amm id	Chromium	Conc. x(i)	x(n-i+1)	Difference x(n-	n(m i+1)	L/:
Smp_10 BKSB101	5.1		· · · · · · · · · · · · · · · · · · ·	i+1)-x(i)	a(n-i+1)	b(i)
BKSB102		0.93	23.6	22.67	0.3872	8.777824
BKSB102	10.3	1.2	20.3	19.1	0.2667	5.09397
	10.1	1.8	16.6	14.8	0.2323	3.43804
BKSB104	3.1	2.1	16.1	14	0.2072	2.9008
BKSB105	4	2.2	12.9	10.7	0.1868	1.99876
BKSB106	7.6	2.7	12.2	9.5	0.1695	1.61025
BKSB107	5.1	3.1	11.1	8	0.1542	1.2336
BKSB108	12.9	3.7	10.3	6.6	0.1405	0.9273
BKSB109	6.5	4	10.1	6.1	0.1278	0.77958
BKSB110	16.6	4	8.9	4.9	0.116	0.5684
BKSB111	6.2	4.3	8.5	4.2	0.1049	0.44058
BKSB112	4	4.6	8.4	3.8	0.0943	0.35834
BKSB113	8.9	4.9	8.4	3.5	0.0842	0.2947
BKSB114	20.3	4.9	8.30	3.4	0.0745	0.2533
BKSB115	7.3	5.1	8.1	3	0.0651	0.1953
BKSB116	2.7	5.1	7.7	2.6	0.056	0.1456
BKSB117	5.7	5.1	7.6	2.5	0.0471	0.11775
BKSB118	2.2	5.5	7.3	1.8	0.0383	0.06894
BKSB119	2.1	5.7	7.2	1.5	0.0296	0.0444
BKSB120	0.93	5.9	6.5	0.6	0.0211	0.01266
BKSB121	6.3	6.1	6.5	0.4	0.0126	0.00504
BKSB122	4.9	6.2	6.3	0.1	0.0042	0.00042
BKSB123	4.3	6.3	6.2	-0.1	0	0
BKSB124	7.2	6.5	6.1	-0.4	0.0037	-0.00148
BKSB125	5.1	6.5	5.9	-0.6	Sum of b=	29.264074
BKSB126	5.5	7.2	5.7	-1.5	· · · · · · · · · · · · · · · · · · ·	
BKSB127	3.7	7.3	5.5	-1.8	W=	0.87100033
BKSB128	8.5	7.6	5.1	-2.5	W(0.05,45)	0.945
BKSB129	4.6	7.7	5.1	-2.6		
BKSB130	1.8	8.1	5.1	-3		
BKSB131	7.7	8.30	4.9	-3.4		
BKSB132	5.9	8.4	4.9	-3.5		
BKSB133	4.9	8.4	4.6	-3.8		
BKSB134	1.2	8.5	4.3	-4.2	· · · · · · · · · · · · · · · · · · ·	
BKSB135	6.1	8.9	4	-4.9	· · · · · · · · · · · · · · · · · · ·	
BKSB136	8.30	10.1	4	-6.1	· · · · · · · · · · · · · · · · · · ·	
BKSB137	8.1	10.3			1	
BKSB138	11.1					
BKSB139	8.4				<u> </u>	
BKSB140	16.1	-				
BKSB141	23.6				 	
BKSB142	8.4				 	
BKSB143	12.2					
BKSB144	6.5	-				
Sum of x _i			0.93	-22.67		
Jun OI Xi	322.03					
	70100555					
Mean	7.31886364	 				
n=	44					
sum of x _i ^2	3340.1149	ļ				
1/n=	0.02272727					
x _{i=} (sum xi)^2	103703.321					
d=	983.221243					
W=	0.87100033					
W(0.05,44)=	0.944					
	·	4		 	 	
W <w(0.5,45),< td=""><td>the distribution</td><td>on is not norm</td><td>al</td><td></td><td>1</td><td>ł</td></w(0.5,45),<>	the distribution	on is not norm	al		1	ł

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Shapiro Wilk Chromium

	In of ordered	1(:)\02	In of Reverse	Difference	-7- 1.1X	1.75
		ln(xi)^2	Order x(n-i+1)	x(n-i+1)-x(i)		b(i)
BKSB101	-0.07257069		3.161246712		0.3872	1.2521341
BKSB102	0.182321557		3.010620886			0.75430743
BKSB103	0.587786665		2.809402695	2.22161603	0.2323	0.5160814
BKSB104	0.741937345		2.778819272	2.03688193		0.42204194
BKSB105	0.78845736		2.557227311			0.33040623
BKSB106	0.993251773		2.501435952			0.25563722
BKSB107	1.131402111		2.406945108	1.275543		0.19668873
BKSB108		1.71173477	2.332143895			0.14384546
BKSB109	1.386294361		2.312535424	0.92624106		0.11837361
BKSB110		1.92181206	2.186051277	0.79975692	0.116	
BKSB111	1.458615023		2.140066163	0.68145114		0.07148422
BKSB112	1.526056303		2.128231706	0.6021754		0.05678514
BKSB113	1.589235205		2.128231706	0.5389965		0.04538351
BKSB114	1.589235205		2.116255515			0.03926301
BKSB115		2.65442474	2.091864062	0.46262352		0.03011679
BKSB116		2.65442474	2.041220329	0.41197979		0.02307087
BKSB117		2.65442474		0.39890771	0.0471	
BKSB118	1.704748092			0.28312626	-	0.01084374
BKSB119	1.740466175		1.974081026		0.0296	-
BKSB120	1.774952351		1.871802177	0.09684983	0.0211	
BKSB121	1.808288771		1.871802177	0.06351341	0.0126	
BKSB122	1.824549292		1.840549633	0.01600034	0.0042	
BKSB123	1.840549633		1.824549292	-0.0160003	0	0
BKSB124	1.871802177		 	-0.0635134	-	0
BKSB125	1.871802177			-0.0968498	Sum of b=	4.38784974
BKSB126	1.974081026			-0.2336149		
BKSB127	1.987874348			-0.2831263		0.96653268
BKSB128	2.028148247		1.62924054		W(0.05,45)	0.945
BKSB129	2.041220329		1.62924054		<u> </u>	
BKSB130	2.091864062			-0.4626235		
BKSB131	2.116255515			-0.5270203		
BKSB132	2.128231706	-	1.589235205	-0.5389965		
BKSB133	2.128231706		 	-0.6021754		
BKSB134	2.140066163	4.57988318	1.458615023	-0.6814511		
BKSB135	2.186051277		.			
BKSB136	2.312535424			-0.9262411		
BKSB137	2.332143895			-1.0238111		
BKSB138	2.406945108					
BKSB139	2.501435952	6.53941152	0.993251773	-1.5081842		
BKSB140	2.557227311				 	
BKSB141	2.778819272				4	
BKSB142	2.809402695			-2.221616	ļ	
BKSB143	3.010620886		0.182321557		4	
BKSB144	3.161246712		-0.072570693	-3.2338174		
Sum of x _i	78.61393132					
Mean	1.786680257					
n=	44					
sum of x _i ^2	160.3778498					
1/n=	0.022727273	 				<u> </u>
x _{j=} (sum xi)^	6180.150197	 			1	
d=	19.91989073	<u> </u>	1	<u> </u>		
W=	0.96653268	<u> </u>				
W(0.05,44)	0.90033208					
	4), the distribut	1 .		-	<u> </u>	
(0.0,4	-,, 413411040	TOR IN TOGETOR				
L	1.	1			1	1

				T		
						:
				D:m		
	T d	Ordered	Reverse Ordered	Difference x(n	- (n ! 1 1)	LCS
smp_id		Conc. x(i)	x(n-i+1)	i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	6	0.72	33.2	32.48	0.3872	12.57626
BKSB102	5	1.3	12.1	10.8	0.2667	2.88036
BKSB103	9.5	1.5	10.2	8.7	0.2323	2.02101
BKSB104	5.3	1.5	10.1	8.6	0.2072	1.78192
BKSB105	3.9	1.7	9.8	8.1	0.1868	1.51308
BKSB106	5	2.3	9.5	7.2	0.1695	1.2204
BKSB107	6.1	2.3	8.3	6	0.1542	0.9252
BKSB108	9.8	2.5	7.8	5.3	0.1405	0.74465
BKSB109	3.2	3.00	7.8	4.8	0.1278	0.61344
BKSB110	7.8	3.1	7.7	4.6	0.116	0.5336
BKSB111	5.3	3.2	7.5	4.3	0.1049	0.45107
BKSB112	1.5	3.6	6.6	3	0.0943	0.2829
BKSB113	6	3.7	6.3		0.0842	0.21892
BKSB114	7.7	3.8	6.1	2.3	0.0745	0.17135
BKSB115	5.1	3.8	6	 	0.0651	0.14322
BKSB116	5.6	3.9	6		0.056	0.1176
BKSB117	8.3	4	5.6	1.6	0.0471	0.07536
BKSB118	3.7	4.1	5.3	1.2	0.0383	0.04596
BKSB119	1.3	4.1	5.3	1.2	0.0296	0.03552
BKSB120	0.72	4.1	5.1	1	0.0211	0.0211
BKSB121	10.2	4.5	5	0.5	0.0126	0.0063
BKSB122	4.1	5	5	0	0.0042	0
BKSB123	3.8	5			0	0
BKSB124	4.5	5		-0.5	ļ	0
BKSB125	1.7	5.1	4.1	-1		
BKSB126	1.5	5.3	4.1		Sum of b=	26.37922
BKSB127	3.8	5.3	4.1	-1.2	ļ	
BKSB128	7.5	5.6			W=	0.647733
BKSB129	4.1	6			W(0.05,45)	0.945
BKSB130	3.1	6		 	4	
BKSB131	10.1	6.1	3.8	 		
BKSB132	7.8		-			
BKSB133	6.3	ļ	 			
BKSB134	2.3	7.5	ŧ			
BKSB135	2.5			-4.6		
BKSB136	3.00	7.8	3.00	-4.8		
BKSB137	2.3					
BKSB138	4.1		 	-6		
BKSB139	3.6	 			 	
BKSB140	33.2		}	 		
BKSB141	12.1		1.5	-8.6		
BKSB142	5	10.2	1.5	-8.7	L	
BKSB143	6.6	12.1	1.3	-10.8		
BKSB144	4	+	0.72	-32.48	1.	
Sum of xi	254.02	+	ļ			
Mean	5.773182					
n=	44					
sum of xi^2	2540.808					ļ
1/n=	0.022727	' <u> </u>				
xi=(sum xi)^2	64526.16					
d=	1074.305					
W=	0.647733					
W(0.05,44)=	0.944					
W <w(0.5,44),< td=""><td>the distribu</td><td>tion is not norm</td><td>nal</td><td></td><td></td><td></td></w(0.5,44),<>	the distribu	tion is not norm	nal			

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Shapiro Wilk for Lead

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	In of ordered		In of Reverse	Difference		
smp_id	Conc. x(i)	ln(xi)^2	Order x(n-i+1)	x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	-0.328504067	0.107914922	3.502549876	3.83105394	0.3872	1.48338409
BKSB102	0.262364264	0.068835007	2.493205453	2.23084119	0.2667	0.59496534
BKSB103	0.405465108	0.164401954	2.32238772	1.91692261	0.2323	0.44530112
BKSB104	0.405465108	0.164401954	2.312535424	1.90707032	0.2072	0.39514497
BKSB105	0.530628251	0.281566341	2.282382386	1.75175413	0.1868	0.32722767
BKSB106	0.832909123	0.693737607	2.251291799	1.41838268	0.1695	
BKSB107	0.832909123	0.693737607	2.116255515	1.28334639	0.1542	
BKSB108	0.916290732	0.839588705	2.054123734	1.137833		0.15986554
BKSB109	1.098612289	1.206948961	2.054123734	0.95551145	0.1278	
BKSB110	1.131402111	1.280070738	2.041220329	0.90981822	0.116	
BKSB111	1.16315081	1.352919806	2.014903021	0.85175221	0.1049	
BKSB112		1.640791516	1.887069649		0.1043	
	1.280933845			0.6061358		
BKSB113	1.30833282	1.711734767	1.840549633	0.53221681	0.0842	
BKSB114	1.335001067	1.782227848	1.808288771	0.4732877	0.0745	
BKSB115	1.335001067	1.782227848	1.791759469	0.4567584	0.0651	
BKSB116	1.360976553	1.852257178	1.791759469	0.43078292	0.056	
BKSB117	1.386294361		1.722766598	0.33647224	0.0471	
BKSB118	1.410986974	1.99088424	1.667706821	0.25671985	0.0383	0.00983237
BKSB119	1.410986974	1.99088424	1.667706821	0.25671985	0.0296	0.00759891
BKSB120	1.410986974	1.99088424	1.62924054	0.21825357	0.0211	0.00460515
BKSB121	1.504077397	2.262248815	1.609437912	0.10536052	0.0126	0.00132754
BKSB122	1.609437912	2.590290394	1.609437912	0	0.0042	0
BKSB123	1.609437912	2.590290394	1.609437912	0		0
BKSB124	1.609437912	2.590290394	1.504077397	-0.10536052		0
BKSB125	1.62924054	2.654424736	1.410986974	-0.21825357		
BKSB126	1.667706821	2.781246039	1.410986974	-0.25671985	Sum of b=	4.39150052
BKSB127	1.667706821	2.781246039	1.410986974	-0.25671985	1	
BKSB128	1.722766598	2.96792475	1.386294361	-0.33647224	W(ln)=	0.97536815
BKSB129	1.791759469				\ <u></u>	
BKSB130	1.791759469	3.210401996			W(0.05,44)	0.944
BKSB131	1.808288771	3.26990828		-0.4732877	(6.66,1.1)	
BKSB132	1.840549633	3.387622953	1.30833282			
BKSB133	1.887069649	3.56103186			-	
BKSB134	2.014903021	4.059834182	1.16315081	-0.85175221	-	<u> </u>
BKSB135	2.041220329		1.131402111			
BKSB136			 		4	ļ
	2.054123734					
BKSB137	2.054123734					
BKSB138	2.116255515	+				
BKSB139	2.251291799			-1.41838268		
BKSB140	2.282382386			-1.75175413		ļ
BKSB141	2.312535424	}		-1.90707032		
BKSB142	2.32238772	,	-	-1.91692261		
BKSB143	2.493205453		+	-2.23084119		
BKSB144	3.502549876	1	-0.328504067	-3.83105394		
Sum of xi	67.07441138					
Mean	1.52441844					
n=	44					
sum of xi^2	122.0217748					
1/n=	0.022727273	+	1			
xi=(sum xi)^2				<u> </u>		<u> </u>
d=	19.77230523	+	1	 		-
W(ln)=	0.975368151					
W(0.05,44)=	0.973308131	<u> </u>	1		ļ	
), the distribution	 	1	-	+	-
W ~ W (U.3,44	, are distribution	is tognomiai	1			1

Shapiro Wilk for Arsenic

						····
÷						
smp_id	Arsenic			·	a(n-i+1)	b(i)
BKSB101	3	0.44	11.6	11.16	0.3894	4.345704
BKSB102	2	0.66	9.2	8.54	0.2684	2.292136
BKSB103	9.1	1	9.1	8.1	0.2334	1.89054
BKSB104	6.2	1.6	8.2	6.6	0.2078	1.37148
BKSB105	4.3	1.9	7.6	5.7	0.1871	1.06647
BKSB106	4.4	2	6.2	4.2	0.1695	0.7119
BKSB108	6	2.5	6	3.5	0.1539	0.53865
BKSB109	3.5	2.6	6	3.4	0.1398	0.47532
BKSB110	4.8	2.6	5.7	3.1	0.1269	0.39339
BKSB111	5.2	2.7	5.6	2.9	0.1149	0.33321
BKSB112	1.6	2.9	5.3	2.4	0.1035	0.2484
BKSB113	5.7	3	5.3	2.3	0.0927	0.21321
BKSB114	5.2	3.2	5.2	2	0.0824	0.1648
BKSB115	5.3	3.2	5.2	2	0.0724	0.1448
BKSB116	11.6	3.2	4.8	1.6	0.0628	0.10048
BKSB117	4.4	3.5	4.8	1.3	0.0534	0.06942
BKSB118	2.6	3.6	4.4	0.8	0.0442	0.03536
BKSB119	0.66	3.7	4.4	0.7	0.0352	0.02464
BKSB120	0.44	3.8	4.3	0.5	0.0263	0.01315
BKSB121	4.1	3.8	4.30	0.5	0.0175	0.00875
BKSB122	3.2	3.8	4.2	0.4	0.0087	0.00348
BKSB123	3.8	4.1	4.1	0	0	0
BKSB124	6	4.2	3.8	-0.4		
BKSB125	3.2	4.3	3.8	-0.5		
BKSB126	2.5	4.30	3.8	-0.5	sum Bi=	14.44529
BKSB127	1.9	4.4	3.7	-0.7		
BKSB128	3.6	4.4	3.6		W(0.05,43)	0.943
BKSB129	2.6	4.8	3.5	-1.3	W=	0.939827935
BKSB130	1	4.8	3.2	-1.6		
BKSB131	5.3	5.2	3.2	-2		
BKSB132	4.2	5.2	3.2	-2		
BKSB133	3.2	5.3	3	-2.3		
BKSB134	2.9	5.3	2.9	-2.4		
BKSB135	2.7	5.6	2.7	-2.9		
BKSB136	4.30	5.7	2.6	-3.1		
BKSB137	8.2	6	2.6		 	
BKSB138	9.2	6	2.5		 	
BKSB139	7.6	6.2	2	}	· · · · · · · · · · · · · · · · · · ·	
BKSB140	4.8	7.6	1.9			
BKSB141	5.6	8.2	1.6			
BKSB142	3.8	9.1	1			
BKSB143	3.8	9.2			4	
BKSB144	3.7	11.6	0.44	-11.16		
Sum of xi	187.2					
Maar	12524004					
Mean	4.3534884					
n= sum of xi^2	1036.9992					
1/n=	0.0232558	 		 	 	-
$\frac{1/n=}{xi=(sum xi)^2}$	35043.84			1		-
$\frac{x_1 = (sum \ x_1)^{r} \cdot 2}{d} =$	222.02618	 				-
u= W=	0.9398279					-
	+	+				
W(0.05,43)=	0.943		motols, manual	<u> </u>		1
W <w(0.5,43),< td=""><td>uie aistributio</td><td>n is approxii</td><td>natery normai</td><td></td><td></td><td></td></w(0.5,43),<>	uie aistributio	n is approxii	natery normai			
		L			.1	

Shapiro Wilk for Arsenic

		,				
	In of ordered		In of Reverse	Difference		
	Conc. x(i)		Order x(n-i+1)	x(n-i+1)-x(i)	a(n-i+1)	b(i)
	-0.820980552	0.674009067	2.451005098	3.27198565	0.3894	1.27411121
	-0.415515444	0.172653084	2.219203484	2.63471893		0.70715856
	0	0	2.208274414	2.20827441	0.2334	0.51541125
	0.470003629	0.220903412	2.104134154	1.63413053	0.2078	0.33957232
	0.641853886	0.411976411	2.028148247	1.38629436	0.1871	0.25937567
	0.693147181	0.480453014	1.824549292	1.13140211	0.1695	0.19177266
	0.916290732	0.839588705	1.791759469	0.87546874	0.1539	0.13473464
	0.955511445	0.913002122	1.791759469	0.83624802	0.1398	0.11690747
	0.955511445	0.913002122	1.740466175	0.78495473	0.1269	0.09961076
	0.993251773	0.986549085	1.722766598	0.72951482	0.1149	0.08382125
	1.064710737	1.133608953	1.667706821	0.60299608	-	0.06241009
	1.098612289	1.206948961	1.667706821			0.05275506
	1.16315081		1.648658626			0.04000584
	1.16315081		1.648658626			0.03515077
	1.16315081				· · · · · · · · · · · · · · · · · · ·	0.03515077
				-		
	1.252762968 1.280933845		1.568615918 1.481604541			0.01686655
						0.00886964
	1.30833282		1.481604541			0.00609916
	1.335001067	0.674009067	1.458615023		 	0.00325105
	1.335001067	1.99088424		-	-	0.00216324
		1.352919806	 		0.0087	0.00087073
	1.410986974	1.782227848	1.410986974	0	<u> </u>	0
<u> </u>	1.435084525	3.210401996	1.335001067	-0.1000835		0
	1.458615023	1.352919806	1.335001067	-0.123614		0
	1.458615023	0.839588705	1.335001067	-0.123614		
	1.481604541	0.411976411	1.30833282	-0.1732717		3.97638115
	1.481604541	1.640791516	1.280933845	-0.2006707		
	1.568615918	0.913002122	1.252762968	-0.3158529	W(0.05,43)	0.943
	1.568615918	0	1.16315081			0.91061638
	1.648658626	2.781246039			`	
	1.648658626		 	 	-	
	1.667706821			 		1
	1.667706821					
	1.722766598					
	1.740466175	2.127557784	•			
						
	1.791759469			+	 	
	1.791759469		-			ļ
	1.824549292		 	}	ļ	
	2.028148247					<u> </u>
	2.104134154		 	-1.6341305	†	
	2.208274414				 	
	2.219203484	1.782227848	-0.415515444	-2.6347189		
	2.451005098	1.711734767	-0.820980552	-3.2719857		
Sum of xi	56.26742214		56.26742214			
Mean	1.308544701					
n=	43					
sum of xi^2	90.99206827			<u> </u>	1	
1/n=	0.023255814	i	1			
xi=(sum xi)^2	3166.022794	 	†			
d=	17.3636312		 			
W=	0.910616383	•	 		1	
W = W(0.05,43) =	0.910616383	.	 	 	 	
W(U.U.).43)=						
W/W/A # 425	the distribution is			 	· }	

Mean Comparison Statistical Results for Arsenic Samples Collected at FH-009

COMPOUND	N	R	U	MEAN	SD	Z
ArsenicA	19	687.00	320.00	408.50	65.49	-1.35
ArsenicB	43	1266.00				

Mean Comparison Statistical Ranking Results for Arsenic Samples Collected at FH-009

COMPOUND	RESULT	RANK	NEWRANK
ArsenicB	0.4400	1.0	1.00
ArsenicB	0.6600	2.0	2.00
ArsenicB	1.0000	3.0	3.00
ArsenicB	1.6000	4.0	4.00
ArsenicB	1.9000	5.0	5.00
ArsenicB	2.0000	6.0	6.00
ArsenicA	2.5000	7.0	7.50
ArsenicB	2.5000	8.0	7.50
ArsenicB	2.6000	9.0	9.50
ArsenicB	2.6000	10.0	9.50
ArsenicA	2.7000	11.0	11.5
ArsenicB	2.7000	12.0	11.5
ArsenicB	2.9000	13.0	13.0
ArsenicA	3.0000	14.0	14.5
ArsenicB	3.0000	15.0	14.5
ArsenicB	3.2000	16.0	17.0
ArsenicB	3.2000	17.0	17.0
ArsenicB	3.2000	18.0	17.0
ArsenicA	3.5000	19.0	19.5
ArsenicB	3.5000	20.0	19.5
ArsenicA	3.6000	21.0	21.5
ArsenicB	3.6000	22.0	21.5
ArsenicA	3.7000	23.0	23.5
ArsenicB	3.7000	24.0	23.5
ArsenicB	3.8000	25.0	26.0
ArsenicB	3.8000	26.0	26.0
ArsenicB	3.8000	27.0	26.0
ArsenicA	4.0000	28.0	28.0
ArsenicB	4.1000	29.0	29.0
ArsenicA	4.2000	30.0	31.0
ArsenicA	4.2000	31.0	31.0
ArsenicB	4.2000	32.0	31.0
ArsenicB	4.3000	33.0	33.5
ArsenicB	4.3000	34.0	33.5
ArsenicB	4.4000	35.0	35.5
ArsenicB	4.4000	36.0	35.5
ArsenicA	4.5000	37.0	37.0
ArsenicA	4.7000	38.0	38.0
ArsenicB	4.8000	39.0	39.5
ArsenicB	4.8000	40.0	39.5
ArsenicA	5.1000	41.0	41.0
ArsenicB	5.2000	42.0	42.5
ArsenicB	5.2000	43.0	42.5
ArsenicB	5.3000	44.0	44.5
ArsenicB	5.3000	45.0	44.5
ArsenicB	5.6000	46.0	46.0
ArsenicA	5.7000	47.0	47.5
ArsenicB	5.7000	48.0	47.5
ArsenicA	5.9000	49.0	49.0
ArsenicB	6.0000	50.0	50.5
ArsenicB	6.0000	51.0	50.5
ArsenicB	6.2000	52.0	52.0
ArsenicA	6.8000	53.0	53.5
ArsenicA	6.8000	54.0	53.5

COMPOUND	RESULT	RANK	NEWRANK
ArsenicB	7.6000	55.0	55.0
ArsenicB	8.2000	56.0	56.0
ArsenicA	8.4000	57.0	57.0
ArsenicB	9.1000	58.0	58.0
ArsenicB	9.2000	59.0	59.0
ArsenicA	11.6000	60.0	60.5
ArsenicB	11.6000	61.0	60.5
ArsenicA	11.7000	62.0	62.0

APPENDIX F

FH-009 Screening Results

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
PZ101	09PZ102		Barium	0.0446	0.0006	mg/l	30 TAC 335 Groundwater	2.0	mg/l
	09SB116	26.0-26.4	Arsenic	5.1	0.33	mg/kg	Soil Background	9.2 157.3	mg/kg
			Barium Chromium	7.4 9.8	0.06 0.07	mg/kg mg/kg	Soil Background Soil Background	157.3 24.9	mg/kg mg/kg
			Lead	5.8	0.19	mg/kg	Soil Background	19	mg/kg
									•
PZ102	09SB117	14.0-15.0	Arsenic	11.6	0.37	mg/kg	Soil Background	9.2	mg/kg
			Barium	29.2	0.07	mg/kg	Soil Background	157.3	mg/kg
			Chromium	19	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	11.1	0.22	mg/kg	Soil Background	19	mg/kg
			Acetone	0.034	0.006	mg/kg	30 TAC 335 Industrial Soil GWF	1020	mg/kg
				0.110	0.0007	a	20.771.0.227.0	2.0	a
PZ103	09PZ101		Barium	0.113	0.0006	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Chromium Lead	0.0158 0.0079	0.0007 0.0015	mg/l mg/l	30 TAC 335 Groundwater 30 TAC 335 Groundwater	0.1 0.015	mg/l mg/l
			Silver	0.0079	0.0013	mg/l	30 TAC 335 Groundwater	0.013	mg/l
			Silver	0.0022	0.0017		ov me ose oroana water	000	
	09SB118	14.5-16.0	Arsenic	6.8	0.19	mg/kg	Soil Background	9.2	mg/kg
			Barium	3.8 J	0.14	mg/kg	Soil Background	157.3	mg/kg
			Chromium	3.4 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	4.8	0.15	mg/kg	Soil Background	19	mg/kg

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
			A	11.7	0.18	mg/kg	Soil Background	9.2	mg/kg
PZ104	09SB119	14.0-15.0	Arsenic	11.7 16 J	0.13	mg/kg	Soil Background	157.3	mg/kg
			Barium Chromium	15.2 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	15.4	0.14	mg/kg	Soil Background	19	mg/kg
SB101	09SB101	0.0-1.0	Arsenic	3.6	0.39	mg/kg	Soil Background	9.2	mg/kg
30101	0,50101	0,0 1,0	Barium	9.9	0.09	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.14	0.05	mg/kg	Soil Background	0.67	mg/kg
			Chromium	4 J	0.09	mg/kg	Soil Background	24.9 19	mg/kg mg/kg
			Lead	4.1 J	0.16	mg/kg	Soil Background	19	mg/kg
	09SB102	14.5-16.0	Arsenic	5.9	0.42	mg/kg	Soil Background	9.2	mg/kg
	098B102	14.5-10.0	Barium	19.6	0.1	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.2	0.05	mg/kg	Soil Background	0.67	mg/kg
			Chromium	11.4 J	0.1	mg/kg	Soil Background	24.9	mg/kg
			Lead	6.7 J	0.18	mg/kg	Soil Background	19	mg/kg
	09SB103	24.5-25.5	Arsenic	4.5	0.37	mg/kg	Soil Background	9.2	mg/kg
	0920103	24.3-23.3	Barium	13.2	0.09	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.17	0.04	mg/kg	Soil Background	0.67	mg/kg
			Chromium	5.8 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.9 J	0.16	mg/kg	Soil Background	19	mg/kg
								0.0	. 0
SB102	09SB109	0.0-1.0	Arsenic	2.7	0.38	mg/kg	Soil Background	9.2	mg/kg
DDIOL	0,02.07		Barium	36 J		mg/kg	Soil Background	157.3	mg/kg
			Chromium	5.8 J		mg/kg	Soil Background	24.9 19	mg/kg mg/kg
			Lead	5	0.22	mg/kg	Soil Background	17	mg/Kg

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
CD 102	09SB110	8.0-9.0	Arsenic	4	0.41	mg/kg	Soil Background	9.2	mg/kg
SB102	0958110	0.0-9.0	Barium	16.2 J	0.08	mg/kg	Soil Background	157.3	mg/kg
			Chromium	9.2 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.9	0.24	mg/kg	Soil Background	19	mg/kg
			Acetone	0.029	0.006	mg/kg	30 TAC 335 Industrial Soil GWP		mg/kg
			Methylene Chloride	0.008	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	0.5	mg/kg
							G 11D 1	9.2	mg/kį
	09SB111	15.0-15.5	Arsenic	3.5	0.39	mg/kg	Soil Background	157.3	mg/k
			Barium	13.8 J	0.08	mg/kg	Soil Background	24.9	mg/k
			Chromium	5.2 J	0.09	mg/kg	Soil Background	19	mg/k
			Lead	5.4	0.23	mg/kg	Soil Background	19	ilig/k
			Acetone	0.012	0.006	mg/kg	30 TAC 335 Industrial Soil GWF	1020	mg/k
		240.250	.	5.7	0.33	mg/kg	Soil Background	9.2	mg/k
	09SB112	24.0-25.0	Arsenic	3.3 J	0.06	mg/kg	Soil Background	157.3	mg/k
			Barium	1.6 J	0.08	mg/kg	Soil Background	24.9	mg/k
			Chromium Lead	4.8	0.00	mg/kg	Soil Background	19	mg/k
						-	30 TAC 335 Industrial Soil GWI	> 1020	mg/k
			Acetone	0.046	0.005	mg/kg	30 TAC 333 Huustilai 3011 GWI		
							0.10 hound	9.2	mg/k
SB103	09SB106	0.0-1.0	Arsenic	3 J	0.38	mg/kg	Soil Background	157.3	mg/k
			Barium	50	0.07	mg/kg	Soil Background	0.67	mg/k
			Cadmium	0.1	0.06	mg/kg	Soil Background		_
			Chromium	11.5 J	0.09	mg/kg	Soil Background	24.9	mg/k
			Lead	6.9 J	0.22	mg/kg	Soil Background	19	mg/l
			Acetone	0.017	0.006	mg/kg	30 TAC 335 Industrial Soil GW	P 1020	mg/l

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
	0000100	140.150	Arsenic	4.2 J	0.37	mg/kg	Soil Background	9.2	mg/kg
SB103	09SB107	14.0-15.0	Barium	11.2	0.07	mg/kg	Soil Background	157.3	mg/kg
			Chromium	6.6 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	7 J	0.21	mg/kg	Soil Background	19	mg/kg
			Acetone	0.011	0.006	mg/kg	30 TAC 335 Industrial Soil GWF	1020	mg/kg
				45.1	0.22	mg/kg	Soil Background	9.2	mg/kg
	09SB108	24.0-25.0	Arsenic	4.7 J	0.33		Soil Background	157.3	mg/kg
			Barium	2.6	0.06	mg/kg	Soil Background	24.9	mg/kg
			Chromium	1.9 J	0.08	mg/kg	Soil Background	19	mg/kg
			Lead	3.3 J	0.19	mg/kg	Soli Background		
			Acetone	0.036	0.005	mg/kg	30 TAC 335 Industrial Soil GWI	1020	mg/kg
			Methylene Chloride	0.006	0.005	mg/kg	30 TAC 335 Industrial Soil GWI	0.5	mg/kg
									-
	0000113	0.0-1.0	Arsenic	4.2	0.4	mg/kg	Soil Background	9.2	mg/kg
SB104	09SB113	0.0-1.0	Barium	45.7 J	0.08	mg/kg	Soil Background	157.3	mg/kg
			Chromium	11.5 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	8.7	0.23	mg/kg	Soil Background	19	mg/kg
			Acetone	0.063	0.006	mg/kg	30 TAC 335 Industrial Soil GW	P 1020	mg/kg
				0.4	0.37	mg/kg	Soil Background	9.2	mg/kg
	09SB114	15.5-16.0	Arsenic	8.4		mg/kg	Soil Background	157.3	mg/kg
			Barium	16.3 J	0.07 0.08	mg/kg	Soil Background	24.9	mg/kg
			Chromium	6 J	0.08	mg/kg	Soil Background	19	mg/kg
			Lead	11.5	0.22	mg/kg	· ·		
			Acetone	0.024	0.006	mg/kg	30 TAC 335 Industrial Soil GW	P 1020	mg/kg

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB104	09SB115	19.0-20.0	Arsenic	<i>4</i> 0	0.22		0.115		
55101	075113	17.0-20.0	Barium	6.8	0.33	mg/kg	Soil Background	9.2	mg/kg
			Chromium	3 J	0.06	mg/kg	Soil Background	157.3	mg/kg
			Lead	2.1 J	0.07	mg/kg	Soil Background	24.9	mg/kg
			Leau	4.7	0.19	mg/kg	Soil Background	19	mg/kg
			Acetone	0.046	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
SB105	09SB104	0.0-1.0	Arsenic	3.7	0.37	mg/kg	Soil Background	9.2	mg/k
			Barium	7.8	0.09	mg/kg	Soil Background	157.3	mg/k
			Cadmium	0.15	0.04	mg/kg	Soil Background	0.67	mg/k
			Chromium	4.3	0.09	mg/kg	Soil Background	24.9	mg/kį
			Lead	3.2	0.16	mg/kg	Soil Background	19	mg/kg
	09SB105	10.5-11.0	Arsenic	2.5	0.37	(I	C. I.D. I.		
		10.0	Barium	15	0.37	mg/kg	Soil Background	9.2	mg/kg
			Cadmium	0.14	0.04	mg/kg	Soil Background	157.3	mg/kg
			Chromium	3.6	0.04	mg/kg	Soil Background	0.67	mg/kg
			Lead	2.2	0.03	mg/kg	Soil Background	24.9	mg/kg
				2.2	0.10	mg/kg	Soil Background	19	mg/kg
	FHGW103		Arsenic	0.0014	0.0003	mg/l	30 TAC 335 Groundwater	0.05	ma/l
			Barium	0.0158	0.0025	mg/l	30 TAC 335 Groundwater	2.0	mg/l mg/l

APPENDIX G

TNRCC Background Criteria Memo

FEB UZ '98 US:44PM CESWF-ED-E

INRCC

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Texas Natural Resource Conservation Commission

INTEROFFICE MEMORANDUM

To:

Program Areas which Utilize the Risk

Date: May 19, 1995

Reduction Rules and Site Specific Risk

Analysis

From:

Dan Pearson

Executive Director

Subject:

Arsenic Soil Cleanup Standards

As a result of the TNRCC's experience at the Hi-Yield Superfund Site, it has become apparent there is considerable controversy regarding cleanup standards for arsenic. The TNRCC has Risk Reduction Rules which set a goal for risk due to residual contamination after cleanup (1x10°). When this goal is translated into a cleanup level for arsenic in soil, the result is .3 to .4 parts per million (ppm). This level of arsenic is below common background levels of arsenic in soil.

In such cases, the Risk Reduction Rules allow an alternate cleanup level of the background concentration. These background levels can be quite low (-2.6 ppm) when compared to cleanup levels utilized by other agencies such as EPA and other state environmental agencies.

I have asked the Risk Reduction Implementation Committee to examine this issue and report back to me with a recommendation for an appropriate cleanup-level for arsenic after careful examination of the relevant science and literature. Lexpect that this will take some time.

In the meanwhile, the TNRCC must move forward and address sites contaminated with arsenic.

Therefore, in the interim, I am directing the various programmareas that must make decisions in regard to arsenic contamination, to utilize a remediation cleanup level of 20 ppm for arsenic in soils in residential areas, based on soil exposure only. If other considerations, such as potential groundwater contamination, indicate that a lower level may be appropriate, those analyses should be followed rather than this directive. The EPA has used 20 ppm as a removal action level.

Until the Risk Reduction Implementation Committee presents its recommendations this value will serve as an adequately protective concentration in the meantime.

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Dan Pearson